

THE SYNAPSES

ISVS NEWSLETTER



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Associate Editor: Deepak Kumar Tiwari

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From the Desk of President

Dear ISVS Members,

Welcome to 45th Annual Congress of Indian Society for Veterinary Surgery (ISVS) and National Symposium on "Computer Applications to Improve Surgical Outcomes in Pets and Livestock: Opportunities & Challenges" at MAFSU, Nagpur, from January 11-13, 2023. At the outset, I wish all the members a happy, healthy and prosperous New Year – 2023. I am happy that 2023 augurs well for ISVS, as we are organising 45th Annual Congress during Uttarayan period. In this digital era, the buzz word is AI, ML, Automation etc. In Veterinary Surgery, there is considerable scope and beginning has to be made, especially in Radiology & Imaging.

Team ISVS of MAFSU, is making all out efforts for the success of 45th Congress of ISVS. In Conferences, we celebrate the superb achievement of our members, academic surgeons, field veterinarians, students and honour, extraordinary contributions of our members.

I fervently request all to participate in this event, technically enriching Veterinary Surgical ecosystem of our country. Long Live ISVS !



N. H. Kelawala

From the Executive Secretary Pen

Dear Members,

At the outset, wishing all 'Happy, Healthy and Professionally Satisfying 2023. I am eager to meet all the delegates at Orange City Nagpur during 45th Annual Congress of Indian Society for Veterinary Surgery (ISVS) and National Symposium on "Computer Applications to Improve Surgical Outcomes in Pets and Livestock: Opportunities & Challenges" from January 11-13, 2023. I am sanguine that Organisers of ISVS-2022 will go extra mile to make our stay comfortable at Nagpur and at the same time, surgically rewarding. As stewards of Veterinary surgical care, let's work in unison and enrich ISVS as per the expectations of young surgeons of this great country.

Dr. Ashok Kumar, after superannuation, with renewed energies, is once again making efforts to enrich ISVS Newsletter - 'The Synapse' a truly enjoyable reading !

Eager to meet you all at Nagpur!

Stay Safe and Healthy.



D. B. Patil

From the Editor

Dear Members,

There are mixed feelings while writing these lines. After a very hard time of Covid-19 pandemic, we are back to the normalcy and preparing to meet again at Nagpur after a great event at Pantnagar in February. I congratulate Dr. Narendra Singh Jadon, Organising Secretary and Dean, College of Veterinary Sciences, G.B.Pant University of Agriculture & Technology, Pantnagar (Uttarakhand) and his team for holding the splendid ISVS-2021 under a very depressing emotional and tight financial situation.

The 45th Annual Congress of Indian Society for Veterinary Surgery (ISVS) and National Symposium on "Computer Applications to Improve Surgical Outcomes in Pets and Livestock: Opportunities & Challenges" at Maharashtra Animal & Fishery Sciences University, Nagpur, from January 11-13, 2023, is imminent and let us commemorate our accomplishments at Nagpur. Secondly, while preparing for the Nagpur meeting; on 3rd December, 2022, we lost a great, prominent and outstanding academician, surgeon, leader, administrator and above all a great human being, Dr. Janaki Mohan Nigam. The sudden demise of Dr. Nigam is a personal loss to me also, but he will be in our heart and remembered for his contribution to the veterinary profession particularly surgery and ISVS. Every one has to bow down before the Almighty Bhagwan and accept his verdict. And so the Life goes on, never stops, *Jeewan Chalen ka Naam*. Happy, prosperous 2023. Stay Safe and Healthy.



Ashok Kumar

FEATURE

Extrinsic factors influencing wildlife restraint and post-immobilization care

Wild animals are our necessary co-inhabitants of the planet; beginning from the savage age until only the last century they were viewed with animosity and killed for food, fun or self defense. Now we protect them in our wildlife Sanctuaries and National Parks, breed them in captivity for population restoration; they are now protected by the legal mechanism of the lands they live. This radical change of attitude happened as a result of the awakening of our minds about the fact that we the homo-sapiens cannot live alone without the diverse flora and fauna around us. With this attitudinal change, also came the challenge of extending best healthcare practices to the wild animals, whether free ranging or captive. Administration of safe anaesthesia forms the backbone of wildlife healthcare programmes. So this branch has developed leaps and bounds during last few decades. Today, we have reasonably safe and satisfactory anesthetic protocols for almost every animal; avian, reptile, amphibians or mammals; ruminant or non-ruminant, herbivores or carnivores, big or small.

Radio-telemetry, rescue of trapped or stray animals, collection of biological samples, treatment of injuries and translocation are some of the reasons why wild animals are to be immobilized. Similarly captive wild animals (Rescue centers and zoos) are immobilized or sedated for treatment, biological sampling, cage transfers, social grouping, matching of breeding pairs, implantation of microchips, and birth control operations. Most of the sedative or anaesthetic agents used in farm or companion animals have also been tried in wild ruminants with variable degrees of success. An ideal drug or drug combination preferred by the present day wildlife vet has to be potent, titrable, quick and smooth induction, synergistic with other drugs for anaesthetic balancing, effective and safe for intramuscular injection, versatile (useful for many species), completely reversible, longer shelf life, safe to handle etc. Concurrent to the development of anaesthetic drugs mostly for companion and farm animals, the art and science of administration of chemical restraint of the wild animals have also progressed. Today, we have effective and safe anaesthetic protocol for every species of wild animals. Yet, the modern and presently favoured drug and drug combination do not completely do away with challenges in different species of animals.



The primary debate was physical versus chemical restraint. In the past all the wild animals intended to be captured were done with physical methods only; some smaller mammals, avians, reptiles and amphibians are still restrained physically. However, now we understand that physical handling and restraint of a fully conscious animal put tremendous stress into a wild animal leading to shock, myopathy and death. Presently, some sedatives or anxiolytics are administered even after the physical restraint. There are various intrinsic factors like size of the animals, species and individual animal difference in the response to drug, differences in anatomy and physiology etc. Ruminants tend to develop bloat, regurgitation, aspiration pneumonia, radial nerve paralysis etc. Peculiar anatomy of certain animals may present peculiar problems, e.g. giraffe may injure itself or anaesthetic team by violent swaying of long neck or may suffer from low blood flow to its brain tissues. Different species of animals respond differently to certain drugs. For example, Etorphine or other opiates are the drugs of choice for different herbivores like rhino, elephant, buffaloes, or even sambar deer, where as they many cause maniacal response in tiger or lion.

So the individual differences in biology of the animal and drug behavior can be considered as intrinsic factors. Now the point of consideration is what are the extrinsic factors that influence the immobilization of the wild animals. We can summarize these factors as follows:

- 1. Season:** Anaesthesia puts an animal into severe kind of stress. It is said that a patient dies of anaesthesia and not due to the surgery if it dies on the table. In spite of preanesthetic examinations, using the safest types of anesthetic drugs and techniques and in spite of all anaesthetic monitoring and resuscitation equipment available, patient dies in operations theaters. So one can just imagine the predicament of the wildlife vet who cannot have any preanaesthetic evaluation, often he does not even see the animal before he goes to immobilize it. He does not even know the approximate body weight of the animal. So the severe climatic condition can put additional stress and jeopardize the safety of the animal. Therefore, we should select suitable season and suitable time of the day for the operation.
- 2. Weather:** Inclement climatic conditions should be avoided as much as possible for the same reason as we avoid unsuitable season as explained above. Severe heat of the mid day sun can create undue stress on the team as well as the animal causing hyperthermia. Similarly, a rainy day should also be avoided as the subject may drown in accumulated rain water and create problems in progress of the team as well as difficulty in recovery and extraction of the animal if the purpose of immobilization is rescue or translocation.

3. **Auditory and visual stimuli:** Excessive noise and movement can cause undue disturbance of a darted animal. Therefore, after the animal is darted, complete silence should be maintained by the team members and all movements should be avoided. We should immediately cover the eyes of the subject with a blindfold (black or green cotton cloth) when possible and the ear canals with sterile cotton plugs. These will save the animal from getting aroused by visual and auditory stimuli. However, we must make it a point to remove the cotton plug before administering the reversal agent.

4. **Presence of hostile or inquisitive crowd:** This is the worst factor in Indian conditions. Whenever such an operation is carried out near human habitations, enthusiastic and inquisitive crowd gather in large numbers that cause numerous problems. Once in Dudhwa Tiger Reserve in UP while immobilizing a rhino intended for translocation, a missed syringe projectile shot by one of my associate missed an onlooker by a whisker; the dart contained etorphine, the potent narcotic. On another occasion outside Orang National Park in Assam, the crowd attacked us with bows and arrows when the stray tiger we tried to capture killed one of the villagers. The right approach in such cases is to get section -144 IPC promulgated by the civil authority to prevent assembly of crowd and the police to enforce this by letter and spirit.

5. **Territory:** The vet team often has to work in unfamiliar territories, which often creates varieties of problems. Suppose you thought it was dry territory but turned out to be a swamp, so your attire and footwear did not match to the challenges posed by the territory. Therefore, information should be gathered about the territory and be physically and mentally prepared for it. This can affect the safety of the darted animal as well; it can cause drowning in deep water or rolling down a steep cliff.

6. **Presence of predators or other hostile animals in the area:** When working in a park inhabited by dangerous animals, snakes or even leeches etc., you need to be prepared accordingly. I have number of times had to face dangerous animals that attacked for safety of its young ones or out of self defense. Venomous snakes may cause serious trouble; so attires should be to overcome snake bites. When an animal is released after the job is over, anaesthesia reversed or without being reversed, it should not fall victim to a predator. A predation may be a normal phenomenon in a jungle, yet we should not be responsible for death of our quarries in such a way. So we should use proper reversal agents and be on guard till the animals regain complete

alertness. There are again numerous instances where the released animal creates havoc by attacking the release party.

7. **Back up arrangement:** when you plan the operation well ahead, you are unlikely to face difficult situations in the field. Always an experienced person should be in the team and everybody should sit together and discuss the pros and cons of the imminent operation. However, all your plans may be thrown haywire by a sudden unforeseen happening. So, while planning should be proper and exhaustive, you need to have strong nerves and should not be panicked in such a moment. Nervous reaction may further complicate the situation.

Dr. K. K. Sarma
Professor & Head,
Department of Surgery & Radiology,
CVSc, AAU, Khanapara, Guwahati-22



**Creatibity is seeing the same thing but
thinking differently**



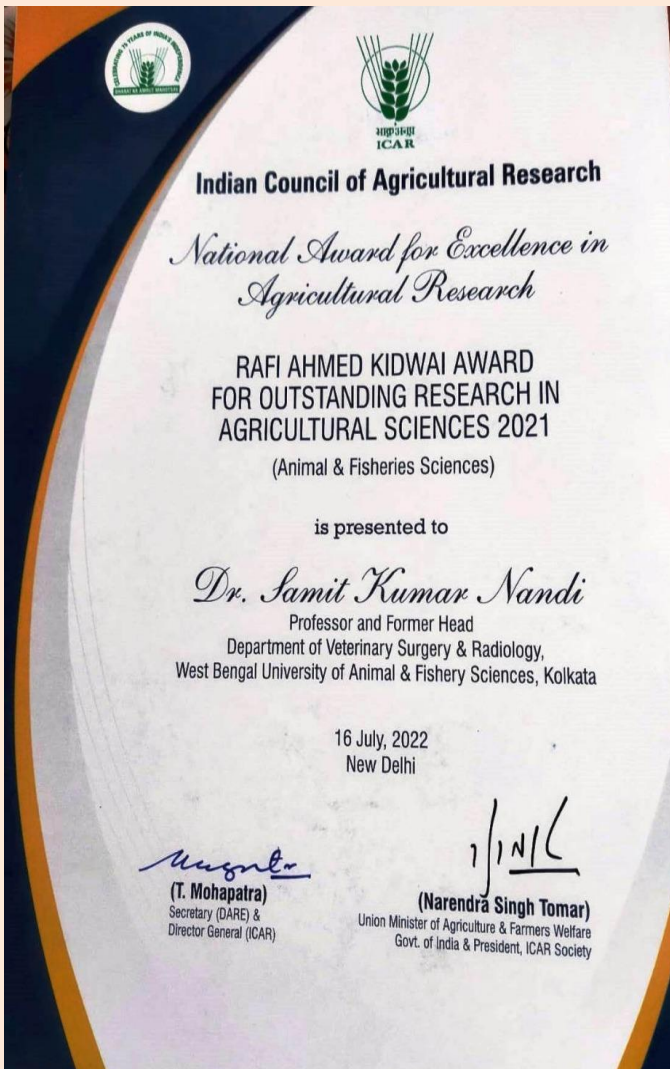
Dr APJ Abdul Kalam

AWARDS / HONOURS / RECOGNITIONS

Dr. Samit Kumar Nandi, Professor and Former Head, Department of Veterinary Surgery and Radiology, West Bengal University of Animal & Fishery Sciences, Kolkata has been awarded **Rafi Ahmed Kidwai Award** for Outstanding Research in Agricultural Sciences 2021 in the category of Animal & Fisheries Sciences. Sh. Narendra Singh Tomar, Union Minister of Agriculture and Farmers Welfare, Govt. of India, New Delhi gave away the award in a function at ICAR, New Delhi.



Dr. Gajendra Subhanrao Khandekar, Professor, Department of Veterinary Surgery and Radiology, Mumbai Veterinary College, Parel, Mumbai, MAFSU, Maharashtra received the **Best Academician Award** by Veterinary Practitioners' Welfare Association (VPWA) Mumbai on 13.11.2022 and felicitation from Pet Practitioners association of Mumbai on 18.12.2022. In VPWA, the award was given by the hands of Honourable Vice Chancellor Prof. (Col.) Dr. A.M. Paturkar MAFSU, Nagpur, Dr. (Mrs.) A.A. Sherikar and special guest famous Marathi actress Madhavi Nimkar. Dr G.S. Khandekar is the renowned name in the field of introducing minimum invasive surgeries and responsible for developing Centre of Excellence of Veterinary Minimally Invasive and Diagnostic Imaging for Treatment, Research and Training for field veterinarians and medicos. He had published more than 100 National and international research papers. He himself become major research guide for 20 post-graduate and 3 PhD Students. He received total of 12 research recommendations on laparoscopy, thoracoscopy and theteroscopy by Joint Research council of MAFSU, Nagpur. He conducted various training and demonstration laparoscopy surgery to staff and students of COVAS, Bikaner, COVAS Ludhiana, COVAS Jabalpur and Meerut at their respective institutes. He is pioneered as one of its kind Four-Day International Online Programme on Basics of Small Animals Laparoscopy as coordinator which benefitted more than 3000 participants from India and 19 other countries.



Dr. Tarun Kumar Gahlot, Former Director of Clinics, Rajasthan University of Veterinary & Animal Sciences, Bikaner was honoured as **Adjunct Faculty** for one year in Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab.



Dr. Tarun Kumar Gahlot received an **Appreciation Award** of \$1000 for his participation and presentation on “An overview of Camel Surgery” in The First International Saudi Veterinary Medical Society Conference: Prospects of Veterinary Medicine in the Kingdom of Saudi Arabia (Challenges and Chances) at King Faisal University, Al Ahsa (11th-13th October 2022).

Dr. Anil Kumar Gangwar, Professor and Head, Department of Veterinary Surgery and Radiology, Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya, (U.P.) was bestowed with the the **Best Teacher Award** for his outstanding contribution to the veterinary education. He received the award from Sh. Surya Pratap Sahi, Cabinet Minister, Agriculture Education and Research, Govt. of Uttar Pradesh and Dr. Bijendra Singh, Vice Chancellor of the university, on the occasion of Teachers’ Day.



Dr Dishant Saini participated and presented a paper on “Surgical management of dietary imbalance induced obstructive urolithiasis in male buffalo calves” authored by **Dr(s) Deepak Kumar Tiwari, Neeraj Arora, Satbir Sharma and Gaurav Kumar** in one of the technical sessions, which was awarded as **First Prize for the best paper presentation** in 5th Annual Convention of National Academy of Veterinary Nutrition and Animal Welfare and National Conference on “Coordinated Nutrition, Health and Extension Approach for Sustainable Livestock Production” organised by College of Veterinary Science and Animal Husbandry, Nanaji Deshmukh Veterinary Science University, Jabalpur (M.P.) on 21-22 September 2022.



Dr Ashish Cristopher, a PG scholar of Department of Veterinary Surgery and Radiology, Palampur won the **Best Clinical Case Presentation Award** in the National Online Clinical Conference on Diagnostic and Therapeutic Modalities in Emerging & Re-emerging Animal Diseases organized by PGI of Veterinary and Animal Sciences, Akola, MAFSU in 2022.



Dr. Om Prakash Chabarawal, MVSc Scholar, Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner, Rajasthan got **1st prize for oral presentation** of clinical paper *Surgico-therapeutic management of cranial cruciate ligament (CCL) rupture in dogs* in the Joint Surgery session.



Dr. Anil Kumar Gangwar was also awarded with the **Cash prize** and a **Certificate of Honour** by the Vice Chancellor of Acharya Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya for his excellent work in the field of veterinary education.



Dr. Ruchi Patwa, PhD Scholar, Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner, Rajasthan was awarded **3rd prize for a clinical paper** “Bilateral and unilateral mandibular fracture fixation with External Skeleton fixation type-I, bone plating and inter fragmentary wiring in three cattle” during the National Seminar on “Current Challenges in Veterinary Orthopaedics and Updates in Corrective Strategies” organized by Department of Veterinary Clinical Complex, College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh, 26-27 August, 2022.



UPCOMING EVENTS

45th Annual Congress of Indian Society for Veterinary Surgery and National Symposium on “Computer Applications to Improve Surgical Outcomes in Pets and Livestock: Opportunities & Challenges” will be organized by the Department of Veterinary Surgery and Radiology, Nagpur Veterinary College, Nagpur Highland Drive Road, Seminary Hills, Nagpur – 440006 from January 11-13, 2023. For details, one can contact Chairman cum Organising Secretary, Dr. S. V. Upadhye Director of Instructions & Dean (Vet.) MAFSU, Nagpur (Email: isvs45@mfsu.in).

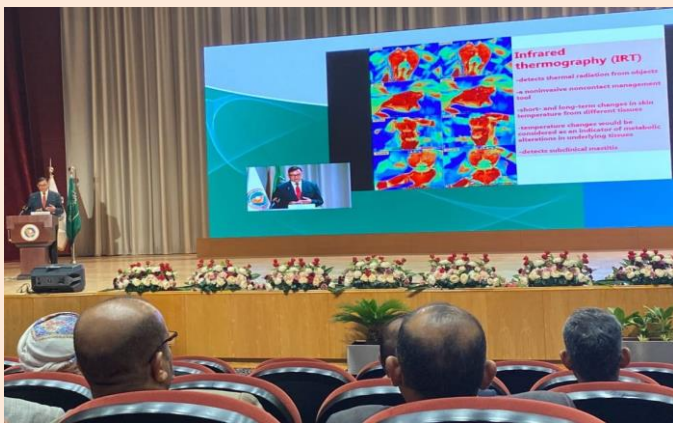


WORKSHOPS/TRAININGS/CONFERENCE/ SYMPOSIA / CONVENTIONS /SEMINARS

Dr. T.K. Gahlot, Professor and Head, Department of Veterinary Surgery and Radiology, Mahatma Jyotiba Fule College of Veterinary & Animal Sciences, Chomu, Rajasthan, India and Editor-in-Chief of the Journal of Camel Practice and Research; delivered a lead paper on “An overview of Camel Surgery” in The First International Saudi Veterinary Medical Society Conference: Prospects of Veterinary Medicine in the Kingdom of Saudi Arabia (Challenges and Chances) at King Faisal University, Al Ahsa (11th-13th October 2022).



Dr. Naveen Kumar; Principal Scientist, Division of Surgery, Indian Veterinary Research Institute (IVRI), Izatnagar, Uttar Pradesh; delivered a lead paper on “Development of Naturally Derived Biomaterials: From Laboratory to Clinical Application in Veterinary Patients” in ASHAA-2022, International Conference on “Contemporary multidisciplinary issues in Applied Sciences, Humanities, Agriculture and, Animal Health and Production” at Rajiv Gandhi South Campus, Banaras Hindu University, Mirzapur, Uttar Pradesh, India held from 14 to 15 November, 2022.



Hands-on training on 'Basics and Advances in Internal Fixation of Fractures'

The Training and Education Centre (TEC), IVRI, Pune organised a five-day hands-on training programme on "*Basics and Advances in Internal Fixation of Fractures*" from 7th-11th November 2022, in collaboration with the District Veterinary Polyclinic, Department of Animal Husbandry, Aundh, Pune (Maharashtra). Seventeen Veterinary Surgeons from different states viz., Karnataka (6), Maharashtra (5), Andhra Pradesh (2), Gujarat (1), Haryana (1) and Punjab (1), and neighbouring country Nepal (1), participated in the training.

Dr Santosh Panchpor, Joint Commissioner of Animal Husbandry, Pune Division, Maharashtra was the Chief Guest of the inaugural function of the training. Dr Panchpor appreciated the efforts taken by TEC in regularly organizing the need based specialised trainings on orthopaedic surgery for empowering practising veterinarians. He also appreciated the veterinary practitioners coming from different parts of the country and abroad to participate in the training. He urged the participants to make full use of the training and apply the skill and knowledge gained in treating not only pet animals but also other livestock. Dr H.P. Aithal, Station In-charge and Course Co-ordinator welcomed the guests and participants of the training programme, and briefed about the activities of IVRI Pune Centre and the objectives, contents and the conduction of the course. Dr Sanghratna Bahire, Scientist and Course Co-ordinator proposed vote of thanks. Dr Amol Bhalerao, Scientist, compered the event. Dr S.K. Das, Principal Scientist, was also present on the occasion. The training included lectures, demonstrations and hands-on trainings on different internal fixation techniques such as IM pinning in different long bones, cross pinning, tension band wiring, interlocking nailing, bone plating (DCP and LCP) techniques. Lectures also included basic structure and development of bone, fracture healing and complications, external fixation techniques, external skeletal fixation and joint luxations. The expert faculty included Dr H.P. Aithal from TEC Pune, Dr Satyawan Agivale and Dr Shalaka Salvekar, 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), Technique and biomechanics of locking compression plate by Dr Kiranjeet Singh (Principal Scientist, Division of Surgery, IVRI, Izatnagar), Bone grafts and bone tissue engineering by Dr Rekha Pathak (Principal Scientist, Division of Surgery, IVRI, Izatnagar), and 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.

The valedictory function of the training was held on 11th November 2022. Dr Arun Bhokre, Former Dean, Mumbai/Udgir/Parbhani Veterinary Colleges, was the Chief

Guest. He appreciated the efforts of TEC-IVRI to organise specialised training in orthopaedics, and hoped that the trainees have made full use of the hands-on training in learning different fracture fixation techniques, so that they could utilize the knowledge gained in treating cases in their respective places. Dr H.P. Aithal briefed about the conduction of the training. 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 Sanghratna Bahire proposed vote of thanks and Dr Amol Bhalerao compered the proceedings.



Chief Guest Dr Santosh Panchpor with faculty and participants during the inaugural function of training programme



Demonstrations during the training



Participants ready for hands-on training

Continuing Veterinary Education trainings on Veterinary Ultrasonography

The Department of Veterinary Surgery and Radiology, Palampur organized two Continuing Veterinary Education trainings on “Basics of Veterinary Ultrasonography in small animals” from 12-14 September and 19-21 September, 2022. The Veterinary practitioners belonging to ten different states attended the trainings. The trainings focused on improving the clinical diagnostic skills of the delegates by giving them hands-on exposure to general ultrasonographic and basic echocardiographic techniques on companion animals. Every participant was given ample opportunity to practice the techniques on clinical patients under the supervision of experts.



A participant from Nepal expressing his views on training



Distribution of certificate to participants



Group photograph with Dr Arun Bhokre, Chief Guest, during the valedictory function



Professor SP Tyagi, Head of the Department of Veterinary Surgery and Radiology, Palampur, delivered lectures and conducted hands-on training on Ophthalmology and Radiology in VETICON-2022 in its Continuing Veterinary Education programme, from 11-14 November 2022 at Lucknow, Uttar Pradesh. Over 100 Veterinary Practitioners from all over India attended this seminar cum workshop.



Two days Training programme on Small Animal Flexible and Rigid Endoscopy

The Department of surgery and Radiology, Mumbai Veterinary College successfully organized hand's on training programme on *"Small Animal Flexible and Rigid Endoscopy"* in collaboration with Bombay Veterinary College Alumni Association and MARS Petcare India from 10th- 12th November 2022. The training programme was inaugurated from the auspicious hands of our respected Associate Dean, (Prof) Dr. A.S. Ranade at Centre of Excellence of Veterinary Minimally Invasive and Diagnostic Imaging Centre for treatment, research and training at new faculty building. Fourteen participants from various cities all over india including Chennai, cochin, Gurgaon, pune, Panipat are participating in this training programme. Dr G.S. Khandekar, Professor, Department of Veterinary Surgery and Radiology is the organizing secretary of this training programme while Dr. S.D. Tripathi, Dr. S.V. Gaikwad Assistant Professors and PhD Scholar Dr. Dishant Saini of the Department are the coordinators of the training programme.



Five-day hand's on training programme for postgraduate students

A Five-day hand's on training programme on *Ultrasonography of Clinical cases in small animals* for PG and PhD students was organised by Department of Veterinary Surgery and Radiology, Mumbai Veterinary College, Parel from 16th- 20th October 2022. The guest speakers of this programme was Dr Sunetra Wadke who is leading sonographer of Mumbai at PETVET Veterinary Clinic and Dr Rajendra Velhankar who is Ex-Professor in Veterinary Clinical Medicine and renowned echocardiographist of India in small animals. The training programme was inaugurated from the auspicious hands of our respected Dr. Dnyaneshwar Dongre Saheb, who is District Deputy Registrar Co-operative housing society and alumni of Mumbai Veterinary College at Centre of Excellence of Veterinary Minimally Invasive and Diagnostic Imaging Centre for treatment, research and training at new faculty building. Dr G.S. Khandekar, Professor, Department of Veterinary Surgery and Radiology is the course director of this training programme and briefed the participants about outline of the training programme, while Dr. S.D. Tripathi, Dr. S.V. Gaikwad Assistant Professors of the Department are the coordinators of this training programme. Dr Rohi, Dr Pharande and Dr Ali were the course Co-coordinators of this training programme. The Closing ceremony was graced by Prof. (Dr.) A.S. Ranade, Associate Dean, Mumbai Veterinary College.



Professor Adarsh Kumar, Department of Veterinary Surgery and Radiology, Palampur conducted Wet Lab Hands-on seminar at Pune, Maharashtra. The Indian Association of Equine Practitioners organized a one-day seminar 31st October, 2022 at Pune Turf Club where Dr Adarsh Kumar was the Guest speaker. The seminar was attended by a number of prominent equine practitioners of India. Dr Adarsh delivered multiple lectures and conducted a hands-on training session in this seminar. The utility of ultrasonography in diagnosing the thoracic and abdominal affections and reaching to a logical conclusion making were explained.

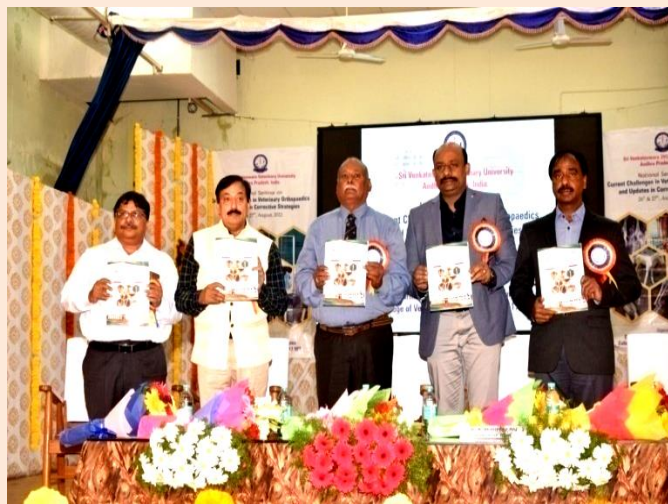


Professor Adarsh Kumar was the guest speaker in a seminar at Shirwal (Maharashtra) on *"Image-guided interventions in veterinary practice"* jointly organized by the Pet practitioners' association of Mumbai and Shirwal Veterinary College, Maharashtra Animal and Fishery Sciences, Nagpur. The event was attended by a number of private practitioners, PG students and internees.

Professor Adarsh Kumar delivered an expert lecture on Basic equine sonography in an online National workshop on *"General health problems in equine practice and its management"* organized by the Department of Veterinary Medicine, College of Veterinary Science & Animal Husbandry, Kamdhenu University, Navsari from 25th-30th July 2022.

National Seminar on *"Current Challenges in Veterinary Orthopaedics and Updates on Corrective Strategies"*

Department of Veterinary Clinical Complex, College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati organized the National Seminar on *"Current Challenges in Veterinary Orthopaedics and updates on Corrective Strategies"* on 26th-27th August, 2022. Dr. K. Veerabrahmaiah, Chairman of the function and Associate Dean (I/c), CVSc, Tirupati, introduced the guests and welcomed all the delegates and dignitaries. Dr. M. Raghunath, Organizing Secretary of the seminar explained the theme of the seminar. Dr. S. Thilagar, Former Vice Chancellor, TANUVAS was the chief guest of the inaugural function congratulated the organizers for selecting an apt theme and title of the seminar as there is a need for development of specializations in the field of Veterinary Surgery he also suggested that Veterinary Orthopaedics should be developed as a specialty subject with an exclusive society for Veterinary Orthopaedics to be established in near future. Dr. R. Reddappa Reddy, Special Officer, BIRRDS hospital, Tirupati was the Guest of honour and stressed on the developments taken place in human Orthopaedics and adaptable technologies in Veterinary Orthopaedics. The function was presided over by Dr. Sarjan Rao, Dean, FVSc, SVVU in his inaugural address explained about the competence of SVVU in conducting this seminar. A compendium of the seminar was also released with all the invited lectures and abstracts. The dignitaries were felicitated by the organizers. Dr. S. Bharathi, Co Organizing secretary proposed the vote of thanks.



The release of compendium in the inaugural function



Felicitating of Dr. S. Thilagar, Chief guest of the inaugural function

The conference was attended by 180 delegates representing eleven states of the country. The delegates included faculty from Veterinary Universities, Research institutes, KVKs, Post graduates students from universities and field veterinarians from different states.



Delegates of the seminar

The key note address on stem cell therapy and its applications in orthopaedics was delivered by Dr. S. Thilagar, Former Vice Chancellor, TANUVAS. There were 13 invited lectures by guest speakers who presented lectures on small, large, wild animal orthopaedics and regenerative therapy. A total of six sessions, with three sessions on each day were included in the seminar. The delegates have presented abstracts in the respective sessions.



During the valedictory function, Dr. M. Raghunath, Organizing Secretary presented the brief report on the proceedings of the seminar and the recommendations made by the jury of various sessions. Dr. K. Verabrahmaiah, Associate Dean (I/c), CVSc., thanked all the guest speakers, delegates and sponsors for their participation in the seminar and making it a grand success. Dr. K. Sarjan Rao, Dean, FVSc, SVVU distributed the prizes and certificates for the best paper winners of all the six sessions.



Five Days 'Hands-on Training Programme on Advance Veterinary Diagnostic Equipments' at PGIVAS, Akola

Department of Teaching Veterinary Clinical Complex, PGIVAS, Akola organized a Five days "Hands-on Training Programme on Advance Veterinary Diagnostic Equipments" under RKVY Project in four batches during 11th-15th July, 2022, 1st-5th August, 2022, 22nd-26th August, 2022 and 5th-9th September, 2022. This training program was organized with an objective to provide hands on training to the field veterinarians to get acquainted with diagnostic methodology on modern diagnostic and therapeutic equipments and facility developed under RKVY Project at TVCC, Akola. A total of 80 Assistant Commissioner Animal Husbandry and Livestock Development Officers from State Animal Husbandry Department, Amravati participated in the training. Dr. S.V. Upadhye, DI and Dean, MAFSU, Dr. N.V. Kurkure, Director of Research, MAFSU, Nagpur, Dr. A.U. Bhikane, Director of Extension Education, MAFSU, Nagpur, Dr. Sandip Ingle, Executive Council Member, MAFSU, Nagpur and Member of Veterinary Council of India, New Delhi, Dr. G.P.Rane, Retired Additional Commissioner, Animal Husbandry, Pune were the guests of the inaugural function and valedictory function. Dr. D.G. Dighe, Associate Dean, PGIVAS, Akola presided over the function. A training manual was also released during the inaugural function.



Releasing of Training Manual during innagural function

Dr. S.P. Waghmare, Training Coordinator and PI RKVY Project, Prof. C.H. Pawshe, Dr. M.G. Thorat, Co-PI RKVY Project, Dr K.S. Pajai, Co-PI RKVY Project, Dr. M.V. Ingawale, Co-PI RKVY Project, Dr. R.V. Raulkar and Dr. S.G. Deshmukh and all staff members made a lot of efforts for successful organization of the training program. All the participants awarded certificates during the valedictory function.



Demonstration on Inhalant Anaesthesia



Demonstration of abdominal USG examination



Distribution of Certificates to the participants by Dr. SV Upadhye, DI & Dean, MAFSU, Nagpur during valedictory function

Capt. (Dr) Ravi Raidurg (Retd)

delivered a lead paper on 23rd September 2022 entitled “*Decision making in canine humeral fracture repair during plate osteosynthesis*” in XVIII Annual convention of Indian Association for Advancement of Canine Practise (ISACP) and National symposium on Newer concepts and approaches in small animal practice and welfare held at Udaipur, Rajasthan.



Capt. (Dr) Ravi Raidurg (Retd) delivered a “Keynote address” entitled “Challenges in fracture repair of domestic and wild animals - A pictorial review” on 15.11.2022 at “International Conference on Contemporary Multidisciplinary issues in Applied Sciences, Humanities, Agriculture, Animal Health and Production – ASHAA 2022” held at Banaras Hindu University (BHU), Varanasi, UP.



Hands-on Training in Small Animal Orthopaedic, RAJUVAS, Rajasthan

Department of Veterinary Surgery and Radiology, CVAS, Bikaner, RAJUVAS, Rajasthan organized two National level 5-days Hands-on Small Animal Orthopaedic trainings on “*Use of Pinning and Plating Techniques in Small Animal (Pets) Fracture Management*”. The trainings were organized from 25-29 July, 2022 and 10-14 October, 2022 with 20 participants in each training. The participants were mainly small animal private practitioners of 14 different states of country. The trainings included lectures and practical demonstration of surgical anatomy and surgical approaches to all limb and jaw bones; method of intramedullary pinning, bone plating, screw fixation, and orthopaedic wire use in different type of limb and

jaw bone fractures. The practical procedures were demonstrated to trainees in moribund animals and hands-on training was provided on buck limbs procured from slaughter house. During the training period Yoga classes were also provided to one batch of training.



Dr. Praveen Bishnoi, Professor and Head of Department of Veterinary Surgery and Radiology, CVAS, Bikaner, RAJUVAS, Rajasthan presented a lead paper “*Computed Tomographic Diagnosis of Orthopaedic disorders in small animals*” in Small Animal Orthopaedics session at National Seminar on “Current Challenges in Veterinary Orthopaedics and Updates in Corrective Strategies” held at College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh from 26-27 August, 2022.



Dr. S.K. Jhirwal presented a lead paper entitled “Farm Animal Ophthalmology: Mission to Mitigate Ocular Pain” on Day One - 22.09.2022 in Session I: Animal Health Science I during IX Annual Convention of SVSBT and National Seminar on “Recent Biotechnological Advances in Health and Management Practices to Augment Productivity of Livestock and Poultry” held from 22-24 September, 2022 at Veterinary College and Research Institute, Tirunelveli, Tamilnadu. More than 200 participants including Hon'ble Vice Chancellor, TANUVAS witnessed the presentation and appreciated the ophthalmology work being done at RAJUVAS.



Dr. Naveen Kumar, Principal Scientist, Division of Surgery, ICAR-IVRI, Izatnagar; was invited speaker in International Conference on “Biomaterials, Regenerative Medicine and Devices” at Indian Institute of Technology Guwahati held on December 15-18, 2022. He delivered the talk on Naturally Derived Biomaterials: From Laboratory to Applications in Veterinary patients. He was also Chairman of the Clinical Session and Judge for Oral presentation award, Bajpae Saha award and MAHE young scientist award during the conference.



Dr. Dayamon D. Mathew, Assistant Professor, BHU, Varanasi was invited speaker in International Conference on “Biomaterials, Regenerative Medicine and Devices” at Indian Institute of Technology Guwahati held on December 15-18, 2022. He delivered the talk on Bio-engineered extracellular matrices seeded with mesenchymal stem like cells for dermal wounds in the Conference, Indian Institute of Technology Guwahati, December 15-18, 2022.



The Annual Conference 2022 of the ISVS Kerala Chapter, Prof. (Dr.) P.O. George commemoration speech-Series II and CVE programme on Current concepts in teat was conducted on 18th December, 2022 at Hotel Pearl Regency, Thrissur. Prof. (Dr.) M.R. Saseendranath, Vice Chancellor, Kerala Veterinary and Animal Sciences University was the chief guest and Prof. (Dr.) K. Rajankutty, President, ISVS, Kerala Chapter, presided over the inaugural function. Prof. (Dr.) John Martin K. D., Professor and University Head, Department of Veterinary Surgery and Radiology welcomed the guests and Dr.S. Sooryadas, Zonal Secretary, ISVS, South Zone, proposed the vote of thanks.



PUBLICATIONS

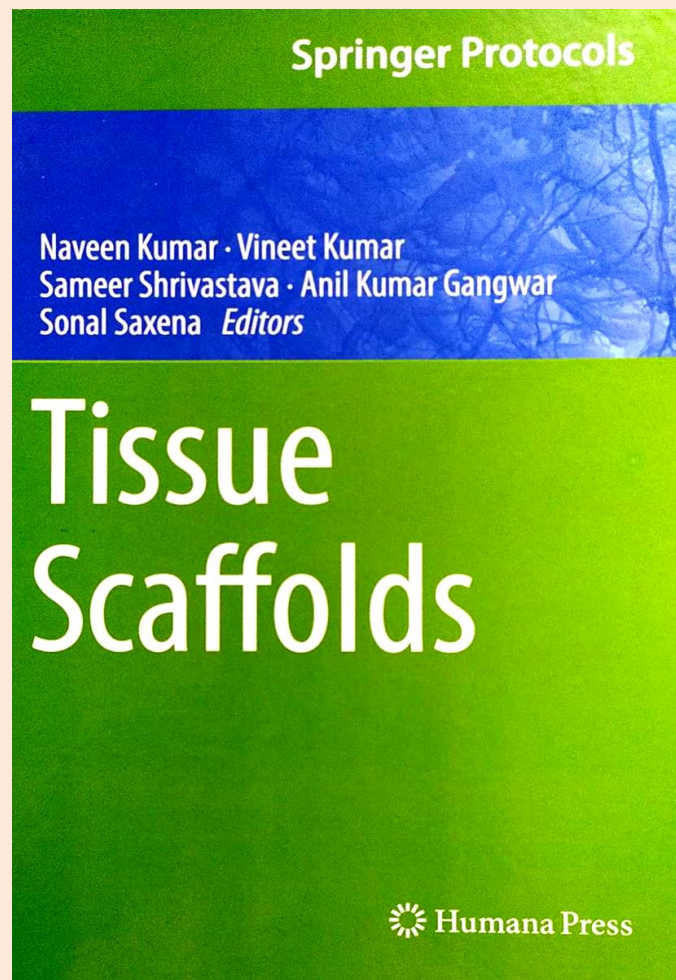
Dr. Naveen Kumar, Principal Scientist, Division of Surgery, ICAR-IVRI, Izatnagar; **Dr. Vineet Kumar**, Assistant Professor, VSR, SVPUAT, Meerut; **Dr. Sameer Srivastava**, Principal Scientist, Division of Biotechnology, ICAR-IVRI, Izatnagar; **Dr.A.K. Gangwar**, Professor & Head, VSR, CVSc. & AH, ANDUAT, Ayodhya and **Dr. Sonal Saxena**, Senior Scientist, Division of Biotechnology, ICAR-IVRI, Izatnagar edited a book entitled “*Protocols in Tissue Scaffolds Research*” published by Springer.



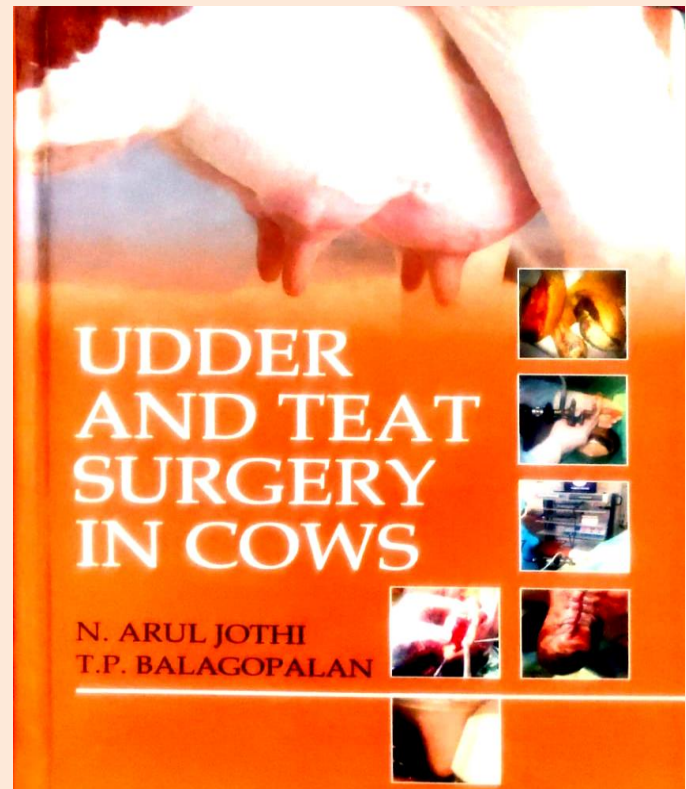
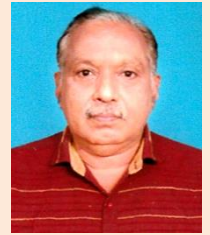
This book contains a set of decellularization protocols. Chemicals and reagents required for a decellularization protocol are listed in the “materials” list before the procedure begins. Many are common, others are commonly used, while others are unique to a particular protocol. These are provided under the heading chemicals and reagents. Instruments

required for a decellularization protocol are listed under the heading equipments. This book includes explanatory information where required to help readers gain an intuitive grasp of the procedures. Each chapter of this book starts with introduction which gives background information. Second section of this book includes materials required to run a decellularization protocol unique to the particular animal tissue. Third section describes the actual decellularization protocol and animal studies outcomes. In addition, critical information and troubleshooting guidelines are presented. Fourth, key references and Internet sites are included.

Our team conducted detailed study on development of protocols for decellularization of different tissues like skin, diaphragm, urinary bladder, gall bladder, bone, cartilage, tendon, rumen, reticulum, omasum, abomasums, small intestine etc. of caprine, ovine, bovine, bubaline, swine and fish origin. The developed scaffolds have been used extensively for reconstruction of hernia in clinical cases of small and large animals. In this book we also discussed the problems faced by the researcher during conducting the decellularization protocols. The format is designed to provide the reader with easy access and all chapters have been written in bullet points. An outstanding group of contributors has thoughtfully and skillfully provided current knowledge in this exciting area and took a long time to prepare the different chapters of this book in a better way. This book would be of value to clinicians and researchers interested in regeneration and repair of the various tissues and organs.



Dr. Arul Jothi, Professor and Head, Department of Veterinary Surgery and Radiology and **Dr. T. P. Balagopalan**, Professor and Head (Retd), Rajiv Gandhi Institute of Veterinary Education and Research, Pondicherry published a bookon *“Udder and Teat Surgery in Cows”*. Detailed clinical evaluation of the mammary system, ultrasonographical examination, surgical affections, treatment protocols, theloscopy and milkers callus are discussed. This book will be very useful for the students and field veterinarians for managing surgical affections of udder and teat in cows.



Dr. Bhupen Sarma, Director of Clinics, College of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati wrote a book on *“Live Story Of Wildlife Treatment”* in Assamese language and published by Chandra Prakash, Guwahati.



The author has documented his 37 years of experience in wildlife treatments. The book consists of 43 interesting stories of his works including different species viz. Rhino, elephant, tiger, bear, otter, turtle, pangolin, peacock etc. The book illustrated about the scientific development of wildlife studies through radio colloring, radiotelemetry and microchipping. The author given the hints of standing anaesthesia, walk in anaesthesia and rebound anaesthesia of wildlife in the book. Telemedicine of rhino paved the way of wildlife treatment in different way, which attracted the wildlife Vets of this region. Behaviour and feeding pattern of pangolin is interesting for the readers.

বন্যপ্রাণী চিকিৎসার জীয়া কাহিনী

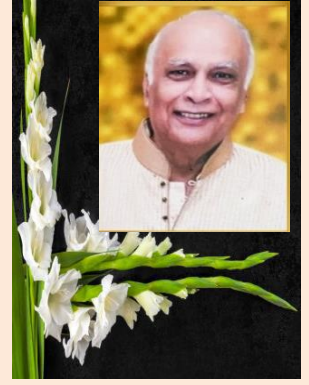
ড° ভূপেন শর্মা



REMEMBRANCE

Dr Janki Mohan Nigam left for heavenly abode on 03.12.2022.

Dr. J.M. Nigam was born in Satna, Madhya Pradesh, India on 5th October, 1938. After early education at Satna (MP) and Allahabad (UP), he graduated from Madhya Pradesh College of Veterinary Science and Animal Husbandry, Mhow in 1960 and completed MVSc in Veterinary



Surgery & Radiology in 1963 from the same institution. In 1964, when Doctoral programme in Veterinary Surgery & Radiology started for the first time in India at College of Veterinary Medicine, Punjab Agricultural University, Hisar Campus, Dr Nigam was the first scholar to register for doctoral programme in veterinary surgery and completed PhD degree in 1967. He was bestowed with FRVAC by Royal College of Veterinary & Agriculture, Copenhagen, Denmark, in 1969 and completed Post-doctoral programme in veterinary anaesthesia from School of Veterinary Medicine, University of Cambridge, UK, in 1974.

Dr Nigam started his career as Demonstrator Surgery (1960-64), MP Veterinary College Mhow. In 1967, soon after completion of PhD degree, he was selected as Associate Professor (Surgery) in the Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, Haryana Agricultural University (HAU), Hisar. Subsequently he served as Professor of Surgery from 1976 to 81, Head, Department of Surgery and Radiology from 1985 to 86 in the same university. He was on deputation, as Visiting Professor, to University of Mosul, Iraq from 1981 to 1985. After coming back from Iraq, he joined HAU, Hisar and served as Dean, College of Veterinary Science and Director, Student Welfare 1985-88. He left HAU, Hisar in 1988 to join as first selected Dean of the College of Veterinary & Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishwavidyalaya (CSKHPKV), Palampur, HP and served in the same position till his retirement in 1998. He is remembered for bringing the college among the best veterinary colleges of the country. Prof. Nigam also worked as Scientist Emeritus for two years at College of Veterinary Science and A.H, Jabalpur, MP from 2000 to 2002.

Dr. Nigam was bestowed with many Awards and Honours viz: Gold Medal, Vikram University, Ujjain, 1963; Swaminathan Award, 1972-73; ICAR Team Research Award, 1986-87; Plaque of Honour HAU, Hisar; Dr SJ Anjelo Memorial Award, 1993-94 and Dr RPS Tyagi Oration Award, 2005. He was elected Fellow of National Academy of Agricultural Sciences, Fellow of National Academy of Veterinary Sciences, Fellow of Indian Society for Veterinary Surgery, Fellow of Royal College of Copenhagen, Denmark and Fellow of National Conservation Society.

APPOINTMENTS/ASSIGNMENTS/PROMOTIONS

Dr BP Shukla has taken over the charge of Dean, College of Veterinary Science and Animal Husbandry College, Mhow. He was earlier working as the Professor and Head, Department of Veterinary Surgery & Radiology as well as Director Clinics, Nanaji Deshmukh Veterinary Science University, Jabalpur.



Dr. Praveen Bishnoi, Professor & Head Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Science (CVAS), Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), Bikaner joined as Director Clinics on 01.09.2022.



Professor SP Tyagi, Department of Veterinary Surgery and Radiology, Palampur, was appointed as member of the Scientific board of Awadh Private Practitioners' Association (APPA) in its CVE programme, VETICON-2022 from November 11-14, 2022 at Lucknow, Uttar Pradesh.



Dr. Sarbani Hazra, Professor and Former Head, Department of Veterinary Surgery & Radiology, West Bengal University of Animal & Fishery Sciences, Kolkata has joined as visiting scholar at Skaggs School of Pharmacy and pharmaceutical Sciences, University of Colorado, USA.



Dr. Nigam was Chairman/member of several national level committees viz: Member of Education Committee, VCI, 1964; Member of Governing Council, NAVS, 2005-07; Founding Secretary of Indian Society for Veterinary Surgery; President, Indian Society for Veterinary Surgery; Member, Research Advisory Committee, IVRI Izatnagar; Member, Board of Management, IVRI, Izatnagar; Member QRT ADMAS; Chairman, QRT National Centre on Equines, Expert Member Union Public Service Commission, New Delhi; Expert Member selection committees ASRB, New Delhi and many other universities. He was Editor, Haryana Veterinarian 1969-73.

He was an outstanding academician and research worker and had enormously contributed in the field of Veterinary Operative Surgery, Anaesthesia, Radiology and Animal Reproduction. He published more than 270 research papers in national and international journal and guided numerous master's and doctoral students.

Indian Society for Veterinary Surgery extends heartfelt condolences to the bereaved family and pray to Almighty that the departed soul rest in peace.

Dr. D.S. Chouhan, born in September 1937, Ex-Professor and Head, Department of Vety Surgery and Radiology, College of Veterinary and Animal Sciences, Bikaner is heavenly abode on 05th September 2022. Dr. Chouhan served in the department from 1971-1997. He nurtured the department for more than 30 years. He was founder of



Clinical Surgery and Radiology in this department. He established soft tissue and orthopaedic surgeries in the department. Best rumenotomies in cows and buffaloes to remove polythene and metallic foreign bodies from their stomach, were standardized and performed by him. He did innumerable numbers of caesarean sections to deliver foetuses. He stabilized long bone fractures in canines and caprines by intramedullary pinning and by transfixation in large ruminants. Soft tissue surgery in camels was largely being standardized and done by him. He also developed Neurosurgery through craniotomy to remove sub-dural Coenurus cerebralis cyst from the brain of sheep and goats. Laparo-ovario-hysterectomies, mammectomies, Zepp's operation etc in pet animals were also standardized by him. Plain and contrast radiography in small and large animals was also standardized by him and he guided many post-graduate students too, based on radiology. He was a well known surgeon for his asptic procedures in Veterinary Surgery with minimum trauma, haemorrhage and duration of surgery. He was instrumental in starting master's and doctorate programme in the department. He organized a national level conference of Indian Society for Veterinary Surgery in 1989 and authored a book on camel surgery in 1992. He was a devoted teacher and was favourite of all the students specially while conducting theory and practicals of Veterinary Surgery. A veterinary surgeon known for his superior surgical skills and great acumen will be remembered by all of us forever. May his soul rest in peace.

Dr. Man Sigh Rathore left for heavenly abode on 5th December 2022. Dr Man Singh was born on 4th September, 1940 at Jaipur, Rajasthan. He did his BVSc & AH and MVSc in 1964 and 1971, respectively from College of Veterinary and Animal Sciences, Bikaner, Rajasthan. He served in the Department of Animal Husbandry, Govt. of Rajasthan in various capacities and retired from the post of Assistant Director and Officer In-charge, Rajasthan State Veterinary Polyclinics and Associated Hospitals, Jaipur on 31.03.1999.



During his service, he organized a number of clinical camps and exhibitions for the benefit of farmers in different parts of state. He was instrumental in establishing the radio-diagnostic facilities in the hospitals. He was in the panel of experts of State Police Force, CRPF, BSF, ITBP and Indian Army for health check up and treatment of horses and dogs. He was also involved in the teaching of undergraduate classes in College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), Bikaner. During his service in the state animal husbandry department, he attended a number of trainings to update the knowledge. He was life member of several professional societies. He acted as a member of judging committees of several national equestrian games, dog show and cattle show competitions. He also served as the Head, Department of Veterinary Surgery and Radiology, Apollo College of Veterinary Medicine, Jaipur. He was a very hard working and sincere person and above all a good human being and very popular among his students and society.

Indian Society for Veterinary Surgery extends heartfelt condolences to the bereaved family and prays to Almighty that the departed soul rest in peace.

Please visit the Web site, facebook page and YouTube Channel of the society for updates

ISVS Website

<http://www.isvs.in/>

ISVS facebook Page

<https://www.facebook.com/indiansocietyforveterinarysurgery/live/>

ISVS YouTube Channel

<https://www.youtube.com/channel/UCxE32T3u0APFy3fXXvb0-w>

All the ISVS Life members are requested to update their corresponding address with pin code, mobile number and e-mail ID through e-mail:

dr.deepaktiwari@gmail.com