

THE SYNAPSES

ISVS NEWSLETTER



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In this Issue

1. From the Desk of President
2. From Executive Secretary Pen
3. From the Editors' Desk
4. Feature: Veterinary Surgery Education During Covid-19 Pandemic, Post-Pandemic and Beyond
5. News Makers
6. New Awards instituted
7. Achievements / Awards / Honours / Recognitions
8. Installation of Maharishi Sushruta statue at ICAR-IVRI, Izatnagar
9. Appointments/Promotions
10. Kamdhenu University, Gandhinagar, Gujarat achieved a milestone
11. Conferences / Symposia / Seminars
12. Upcoming Events
13. Trainings
14. New Publications
15. From Surgical Floor
16. Webinars
17. Remembrance
18. Guidelines to protect yourself from contracting and transmitting COVID-19

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From the Desk of President

Dear friends, once again I am with you talking about what has been achieved and what should be our future plan. We all know that last year was a tough year for human race. Even while regular classes were not held, research findings were not discussed; farmer-scientist interaction was minimal. The information technology played an important role in disseminating knowledge through online seminars, webinars and so on. Indian Society for Veterinary Surgery played a significant role in organising more webinars than any other agency or society. I Convey my sincere greetings and thanks to all the organisers, who made it happen. At the same time, I must place on record the contributions made by our scientists for disseminating scientific information to the audience. It is now time to think about our next goal(s). The era of specialists is already knocking at our door. Some veterinary colleges have already taken steps in this direction. At national level, establishment of Board of Veterinary Surgery, Veterinary Anaesthesia and Diagnostic Imaging must be initiated. Starting of certificate courses and diploma courses in targeted manner will help practicing veterinarians to acquire skill in the specialised area of veterinary surgery and radiology. Most of us are already aware of this but it is high time to initiate such an establishment to bring a growth in the specialised area. I am sure my colleagues from all over India will give a serious thought on this issue to see that growth in veterinary surgery and radiology is given another impetus. I convey my greetings to all members of Indian Society for Veterinary Surgery for a peaceful and healthy new year.



Simrat Sagar Singh
President, ISVS

From Executive Secretary Pen

Online is Lifeline...!

The dynamic nature of Corona Virus 'COVID-19' and the disruption in the educational sector demands concerted efforts to mitigate the situation. A proactive step from our President, Dr. Simrat Sagar Singh in the initial phase itself, set the ball of Webinar rolling culminating in 26 Webinars till Dec. 05, 2020; of which 07 were presented by international Speakers. Further, efforts are being made to continue Webinar series with cooperation of all the Heads of Department. Here, once again, I request all to contribute proactively towards refinement of this Webinar series. A revisit to different Webinars is also possible on the YouTube Channel of ISVS Website. I thank all the Speakers, Webinar Attendees for making Webinar series viable. I profusely thank Dr. Nitin Bhatia, Associate Vice President, INTAS Pharmaceuticals Ltd. for his consistent encouragement and providing platform for hassle free conduct of Webinars and our Webinar Coordinators, Dr. Deepak Tiwari, Dr. Divyesh Kelawala, Dr. Nilesh Sindhu and Dr. Amanjot Singh. I also appreciate the zeal and enthusiasm of 'The Synapses' Editor, Dr. Ashok Kumar for keeping our Website vibrant! Stay Safe and Healthy.



Deepak B. Patil
Executive Secretary, ISVS

From the Editor' Desk

Novel corona virus related epidemic is taking a toll. World-wide nations are sounding alert and preparedness to counter the spread of COVID-19. Approach to veterinary clinical practice has completely changed, classroom teaching transformed to online module. Clinical teaching and training has stagnated the pace of veterinary surgery. However, in difficult times ISVS strongly defended the critical crossroad characterized by great opportunities to transform teaching and clinical skills, pooling its resources and promoting continuing education through webinar series to upgrade the surgical skills. I am thankful to the organizers, speakers and participants of webinar series making it live and viable to meet the prospects to disseminate knowledge.

I wish to express my gratitude to all those who guided, assisted and cooperated with me in fulfilling my responsibility in compiling, editing and publishing ISVS Newsletter. I assure that we shall strive hard to bring the society beyond the expectations with your support, motivation and co-operation.

Finally, I would like to request all our life members to take active part in the activities of the society and offer their valuable suggestions to expand our horizons.

Lastly I take this opportunity to wish you all a very happy and prosperous New Year 2021.



Ashok Kumar

Feature

Veterinary Surgery Education during Covid-19 Pandemic, Post-Pandemic and Beyond

In veterinary and human surgery, clinical teaching and training has relied for many years on an apprenticeship type model, where the student trainee shadows a more experienced surgeon for learning, initially observing the expert, assisting then independently performing the procedure under the supervision. This approach is still found to be valid. However, in the last decade, there has been a need to develop new approaches to complement the traditional methods. There are also ethical issues to consider, and with increasing client awareness, there is some resistance to student trainees learning and practicing on patients. There are moves to find alternatives, where appropriate, that seek to equip trainees with at least the basic surgical skills prior to handling real patients.

One way of supplementing traditional surgical skills training is for students to learn by using simulators. The trainee gains hands-on experience in a standardized and safe environment. Some modern veterinary colleges have well equipped clinical skills laboratories where students are trained and assessed using simulators. These skills laboratories are equipped with a range of models, some of which were developed for human medical training, in addition to an increasing number of veterinary-specific models. Specific surgical models for veterinary training include the Dog Abdominal Surrogate for Instructional Exercises (DASIE), canine plastic bones, simulators for canine ovariohysterectomy and abdominal surgical procedures of the spleen, liver and kidney; the equine colic model as well as the haptic cow. If used appropriately, the simulators are a valuable complement to traditional training methods and enable students to make more effective and efficient use of clinical cases as learning opportunities.

Education Response to Covid-19 Pandemic

In response to the Covid-19 pandemic, the approach to veterinary clinical education delivery suddenly changed. Within days, the classroom curriculum evolved to online material delivered from lecturers' offices or homes to students' homes. Teaching veterinary surgery faced a number of challenges, none more so than in the area of clinical skills training. It was a challenge to ensure that students acquired the basic practical, clinical and surgical skills as well as a working knowledge of common cases through the virtual mode.

Out of necessity, sessions were purely observational but remained interactive. Clinical year students participated remotely in cases at teaching hospitals and ambulatory sites, which were live-streamed from clinicians' smartphones. Real-time delivery of ultrasonographic images, endoscopic videos and live surgery as well as other case data such as radiographic images and clinic-pathologic data were transmitted to students' devices, including their ever-present smartphones. Rounds and clinical conferences were conducted through various online platforms.

Institutions did everything possible to prioritize student learning and ensured that those all-important clinical decision-making skills were developed during this unprecedented time. For this reason, some institutions also changed the curriculum, which was packed with technical and hard skills to a curriculum that had more soft skills. While we were required to be apart, there was increased collaboration among veterinary faculties, colleges and schools around the world to share experiences and ideas for teaching and learning in the midst of this pandemic.

Overnight, professors and lecturers were required to switch from traditional face-to-face teaching to teaching in an online learning environment. This transition to virtual teaching necessitated an increase in blended learning. As a result, the student now has a greater role and responsibility for their own learning. They are no longer the passive recipients of knowledge, and now must play a more active role in the learning process. This brings heutagogy, or student-centered or self-determined learning to the forefront. Hence,



the lecturers of tomorrow will be conveners, organizers, and facilitators who are fully digitally capable. This will allow lecturers to develop within their students the capabilities necessary to be more actively engaged in their own learning in the face of the new normal.

Education Post-Pandemic and Beyond

Recently, with automation and data exchange techniques, the industrial revolution has transformed to version 4.0. Several medical hot topics like Internet of Medical Things (IoMT) referred to as "Smart Healthcare", and cloud-computing technologies in health care industry started to appear in many discussion platforms.

So, with the 4.0 industrial revolution, healthcare has also transformed to the 4.0 version - the era of smart medicine, featured by its new brain and new hands. The new brain consists of several essential components *viz*: precision medicine, artificial intelligence, IoMT and telemedicine. The new hands include robots, wearable devices, customized materials and 3D printing. Plates, screws and joint implants for bone and joint surgery can be custom made, and bone scaffolds can be prepared by 3D printing. Robotic-assisted surgery like da Vinci® Surgical System has come into human practice and will soon be available for veterinary practice.

Universities are making significant contributions to the Industrial Revolution 4.0 with their work in technological innovation and artificial intelligence. In the near future, veterinary employers will expect veterinary graduates to be surgically competent enough to meet with the demands of "Smart Healthcare". Veterinary students will also expect and deserve a market-relevant educational experience.

Hence, there is an urgent need to invent, innovate, apply, and adapt learning systems to utilize the latest teaching and learning technologies and methodologies available. Learners of today and tomorrow expect technology-rich, on-demand, peer-to-peer, short duration, and active learning environments. Hands-on surgical instruction complimented by simulation based learning as a central component of a culture of lifelong learning is becoming the norm.

To perform Simulation Based Medical Education (SBME) effectively, not only simulators including high-fidelity mannequin-type or virtual-reality simulators are needed but also full-time faculties and instructors as professionals of SBME are essential in a surgical skills laboratory.

Currently, we are at a critical crossroad characterized by both great opportunities to transform teaching and learning to the needs of the industry and the risk of becoming completely irrelevant to the industry. There is an under-optimized but immense scope of opportunity to apply new information and communications technologies. Institutions need to create tomorrow's veterinary surgeons - those who will practice in the Industrial Revolution 4.0 era. Veterinary colleges that continue to educate for yesterday's veterinarians will create professionals who are irrelevant to their own field.

The COVID-19 pandemic completely changed the approach of implementing clinical surgical teaching through online mode. However, online clinical teaching can only complement face-to-face instruction in veterinary medicine and surgery but never be a replacement. Further, there is no substitute for experiential learning because students are expected to learn and acquire the 'Day One Clinical Competencies' in order to graduate and to practice the competencies independently without supervision. Clinical surgical education will be relevant only if it meets with the demands of the industry and employers of this era.

Dr. Thotta Narasimhalu Ganesh

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Dr. N.K. Kelawala, Vice Chancellor, Kamdhenu University, Gandhinagar, Gujarat, has been nominated as a Member of one of the prestigious bodies of veterinary profession, Veterinary Council of India (VCI).



Dr. N.H. Kelawala has graduated from Veterinary College, Anand in the year 1986. He started his career as a Veterinary Officer, Department of Surgery, Veterinary College, Anand in September, 1986 and served in different capacities till January, 2009. He obtained his Masters' and Doctorate degree in the year 1989 and 1996, respectively. He was awarded "Jawaharlal Nehru Award for outstanding Agricultural Research" by ICAR in the year 1996-97 for his Doctorate Research from Govind Ballabh Pant University of Agriculture & Technology, Pantnagar. He was deputed under bilateral collaborative International Exchange programme of Indian National Science Academy (INSA), New Delhi to Peoples' Republic of China and Brazil in the year 1999 and 2005-2006, respectively. He was elected member of Gujarat Veterinary Council for the tenure of 2007-2012. He joined as Dean at Veterinary College, Navsari Agricultural University, Navsari, since its establishment in the year 2008-2009. During his tenure as Dean, developed Veterinary College, Navsari and was the instrumental in getting it recognized by Veterinary Council of India which is first after enactment of VCI Act, 2008. During his academic career, he guided MVSc (20) and PhD students and published more than 50 research articles in national and international journals of repute. He has joined as Vice Chancellor, Kamdhenu University, Gandhinagar on 26th October, 2018. He has also participated in the 2nd Regional Workshop for "Veterinary Education Establishment (VEEs) and Veterinary Statutory Bodies (VSBs)" during 19th-20th November, 2018 at University of Tokyo, Japan as an OIE sponsored Indian Delegate nominated by the Ministry of Agriculture, Farmer Welfare and Cooperation, Government of India, New Delhi. He was recipient of fellows from Indian Society for Veterinary Surgery (ISVS), National Academy of Veterinary Sciences (NAVSI) and Indian Association of Advancement of Veterinary Research (IAAVR). He was awarded Gold Medals for Best Research Paper presented and published in ISVS besides many awards from reputed societies.

Dr. A.C. Varshney has been elected as Vice President of National Academy of Veterinary Sciences (India) for 2020-2023.



Prof. A.C. Varshney has an experience of more than 39 years, including as Vice-chancellor of UP Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura, Dean of Veterinary Colleges of Central Agriculture University, Aizawl and HP Agricultural University, Palampur (HP). After completing the tenure of Vice-chancellor, he also served as Director General at Ayurved Research Foundation (earlier with Dabur), Ghaziabad for more than 3 years. Prof. Varshney has significantly contributed in administrative reforms, infrastructure and Human Resource besides handling a number of research projects and developing various innovative programmes. With his consistent efforts, dedication and commitment the Veterinary University, Mathura first time achieved the position in top 100 universities of India securing 62nd rank in a study conducted by Ministry of Human Resource Development, India. Before that, he had a long record of distinguished service as teacher and research worker first at GB Pant University of Agriculture and Technology, Pantnagar for about 10 years and then at Himachal Pradesh Agricultural University, Palampur for more than 22 years as Professor and then as Dean of the College recognizing as one of the best institutions in terms of academic and research programmes and clinical services in the country. Prof. Varshney obtained Graduate, Master's and Doctoral degrees from

G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand. He has a brilliant academic record as a student as well as a teacher and scientist. He was instrumental in extending the Agriculture and Animal sciences services to the farmer's door including the tribal areas. He has visited a number of countries including Switzerland, Germany, China, Thailand, Pakistan etc having wide international exposure. He is the fellow of Indian Society for Veterinary Surgery (ISVS), Indian Association for Advancement of Veterinary Research (IAAVR) and National Academy of Veterinary Sciences (NAVS, India). Prof. Varshney has number of prestigious awards to his credit. He has represented many important administrative/academic forum such as Chancellor's nominee of Rajasthan University of Veterinary and Animal Sciences, Bikaner, Board of Management (Executive Council), Indian Veterinary Research Institute, Izatnagar, Bareilly, Central Institute Research on Goats, Makhdoom, Farah, District Mathura and Sher-e- Kashmir University of Agriculture Sciences & Technology (SKAUST-J), Jammu and Academy Council, U.P. Rajarishi Tondon Mukt Vishwavidyalaya, Allahabad besides being the chairman and member of various statutory committees of ICAR, UGC and other institutions. Prof. Varshney currently is the Trustee on the Board of Ayurved Research Foundation (formerly with Dabur). More than 13 postgraduate theses, 18 research projects and over 172 research articles speak the volume of his contributions to the field of Veterinary and Animal Sciences.

Dr. Shailender Kumar Tiwari has been elected as Member of National Academy of Veterinary Sciences (India) for the second consecutive term (2020-2023).



Dr. Shailendra Kumar Tiwari, Dean, College of Veterinary Science & A.H., Anjora, Durg and former Director Instructions, Chhattisgarh Kamdhenu Vishwavidyalaya, Durg (CG) and Professor and Head, Department of Veterinary Surgery and Radiology was born on 1st June 1962 at Maihar District Satna (M.P.). Dr. Tiwari obtained his B.V.Sc. & A.H. and M.V.Sc. and A.H. degree from Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur (M.P.) in 1983 and 1988 respectively with the Gold Medals in both the degrees. Dr. Tiwari obtained his Ph.D. degree in 1996 from G.B. Pant University of Agriculture and Technology, Pantnagar Uttarakhand under the guidance of renowned Surgeon Prof. (Dr.) Amresh Kumar and received "Jawaharlal Nehru Award" of ICAR for Best Ph.D. thesis in 1998. Dr. Tiwari started his service career as Veterinary Officer in 1985 and became Professor and Head in 2003, where he was continuing before selection in the Post of Director Instructions in 2014. Dr. Tiwari joined the post of Dean on 12.03.2020.

Dr. Tiwari is recipient of many awards viz. University Gold Medal for B.V.Sc. & A.H. and M.V.Sc. & A.H. degree. R.K. Gambheer Gold Medal, Behre Gold Medal, Patwardhan Gold Medal, Jawaharlal Nehru Award, ICAR Junior fellowship, ICAR Senior fellowship, Common wealth fellowship etc. Dr. Tiwari has 32 years' experience of teaching, research and extension. He has guided 29 M.V.Sc. and 1 Ph.D. student. Dr. Tiwari has done pioneer work on "Reversal of anaesthesia in large animals after surgery to avoid prolong recumbency". For this work he was awarded "Jawaharlal Nehru Award" by ICAR, New Delhi. Dr. Tiwari is recipient of several other awards viz. Best Teacher Award, Bharat Jyoti Award, A.K. Bhargava Memorial Award, Pashudhan Silver Jubilee Award, Krishi Shiromani Award, Fellow of NAVS, Fellow of ISVS etc. Dr. Tiwari was the Principal Investigator of an ICAR sponsored adhoc project on Urolithiasis in animals with a total outlay of 27.85 lakhs. Dr. Tiwari has high scientific temperament and published 269 research papers in reputed journals of India and abroad. Dr. Tiwari is member of Academic Council, Administrative Council and Executive Council of CGKV, Durg from the last 6 years. He was also member of Governing Council of NAVS for 3 years. Dr. Tiwari has published a book entitled "Text book of Anaesthesia and Analgnesia" published by New Delhi publisher, New Delhi in 2018.

New Awards instituted by ISVS

As per the decision taken in General Body meeting held at LUVAS, Hisar on 16.11.2019, it was decided the Lifetime achievement award for excellence will be christened in the names of eminent veterinary surgeons, who are desirous to institute an award after depositing the security amount of Rs. 1,00,000/- (Rs. One lac only). Four very eminent surgeons have deposited the security amount in the ISVS account, henceforth ISVS is hereby instituting following awards in their names. These awards will be known as:

➤ **Dr J.M. Nigam Lifetime Achievement Award for Excellence in Ruminant Surgery**



➤ **Dr Amresh Kumar Lifetime Achievement Award for Excellence in Anaesthesiology**



➤ **Dr A.P. Singh Lifetime Achievement Award for Excellence in Radiology and Imaging**



➤ **Dr Gaj Raj Singh Lifetime Achievement Award for Excellence in Orthopaedics**



The eligibility criteria and guidelines related to these awards will be available on <http://www.isvs.in>

Achievements/Awards/Honours/Recognitions

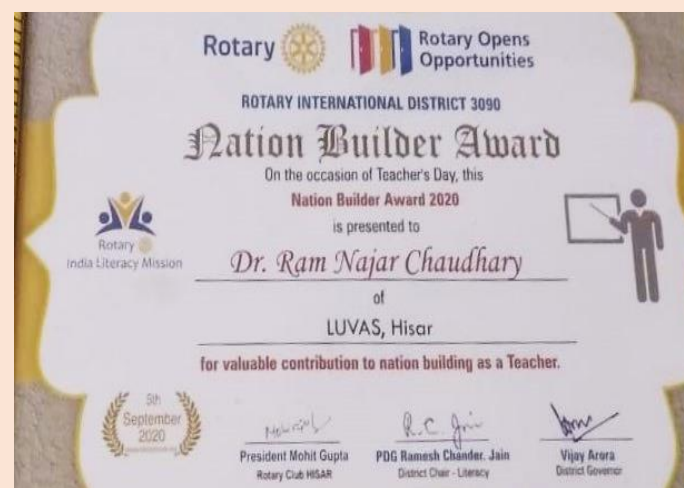
Dr. T.K. Gahlot, former Professor and Head of Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Sciences, Bikaner has been bestowed upon "*Lifetime Achievement Award*" in recognition of his significant and outstanding service and contribution in the field of animal welfare by Pashudhan Praharee.



Dr. Ashok Kumar, Professor and Head of Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS) has been conferred "*Nation Builder Award 2020*" by Rotary International District 3090 (Hisar) on the occasion of Teachers' Day; September 05, 2020 for valuable contribution to Nation building as a Teacher.



Dr. Ram Nazar Chaudhary, Associate Professor of Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS) has been awarded by "*Nation Builder Award 2020*" by Rotary International District 3090 (Hisar) on the occasion of Teachers' Day; September 05, 2020 for his valuable contribution to Nation building as a Teacher.



Dr. Neelesh Sindhu, Assistant Professor, Department of Veterinary Clinical Complex, cum Social Media Incharge, LUVAS, Hisar, College of Veterinary Sciences, Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS) has been awarded "*National Excellence Award*" on 29-07-2020 in recognition of significant contribution for prevention of cruelty to Animals and Enhancement of Animal welfare.



Dr. Neelesh Sindhu was also awarded "*Global Icon Award*", (under Social Impact award) on 09-10-2020 in recognition for outstanding professional work and significant contribution for the advancement of poultry sector in India.



Dr. Sumant Verma, Veterinary Assistant Surgeon, Singrauli (MP) received “Best Veterinarian Award” from Collector, Singrauli for his dedicated services rendered for the animal welfare.



Dr. Raj Kumar Jain, Veterinary Assistant Surgeon, Dewas (MP) received Appreciation by WSAVA for his valuable contribution in the field of small animal practice.



Installation of Maharishi Sushruta statue at ICAR-Indian Veterinary Research Institute (ICAR-IVRI), Izatnagar

Maharishi Sushruta lived in ancient city of Banaras or Kashi during 600BC. He is regarded as Father of Indian Medicine and Father of Plastic Surgery. He is credited to start reconstructive surgery in India when the world was ignorant to such a futuristic approach for tissue repair and regeneration. He is also regarded as a great teacher of medical sciences as he used to teach medicine to his students by conducting dissection on preserved human bodies. As a token of respect and to commemorate



his teachings in medicine and surgery, it was decided to install a statue of Maharishi Sushruta in front of newly constructed clinical block of Referral Veterinary Polyclinic-cum-TVCC at IVRI, Izatnagar. I put the proposal before the then Director of IVRI, Dr. R.K. Singh. He agreed to the proposal with the condition that the finances for the statue have to be arranged by the Division of Surgery. The matter was discussed with the colleagues and the former Head Division of Surgery and the President of ISVS, Dr. G.R. Singh. On his advice the views of Prof Amresh Kumar and Dr. P.E. Kulkarni Former President were also sought and they also supported the proposal, but the issue of finances for construction of the statue was the concern as IVRI administration had denied to provide funds for the purpose. After thorough discussion with Dr. G.R. Singh it was decided that the expenditure for preparation of the statue may be met out of the savings from ISVS conference conducted at IVRI during 2005 under the leadership of the Dr. G.R. Singh. Since the savings had already been deposited to ISVS account, the proposal for withdrawal of the amount from ISVS account had to be approved by executive committee of ISVS. Therefore, the agenda was brought for discussion during executive committee of ISVS held in NAVSARI. After discussion in the executive committee in the presence of senior members and past presidents including Dr. P.E. Kulkarni, Dr. J.M. Nigam, Dr. Amresh Kumar, Dr. A.P. Singh and Dr. G.R. Singh, it was decided that Rupees ninety thousand may be provided from ISVS account that could be about 50% of the savings and its interest deposited by IVRI from the conference savings. Thus a sum of Rs 90,000/- was released from ISVS account for this purpose. It was then decided that a white marble statue of Maharishi Sushruta may got prepared by the expert artisans of Jaipur. I along with Dr. P. Kinjavdekar, PS Surgery, IVRI visited Jaipur for the selection of appropriate firm with a good reputation in this field. After extensive survey of Jaipur, the order was placed to one reputed firm and finally a beautiful statue of Maharishi Sushruta in white marble was got prepared and installed in front of new RVP Complex of IVRI. I express my



Dr. Randhir Singh, Assistant Professor, Veterinary Surgery and Radiology received Best ANO award with cash prize Rs.9000/NCC unit of the College has given this Award for his sincere contribution towards NCC unit.



Dr. Atul Parihar, Assistant Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science & A.H. Mhow, received “Best oral presentation” and “Best poster” in clinical session of 1st National Symposium of Association for Animal Scientist, Organized by College of Veterinary Science & A.H., Mhow.



sincere thanks to the then Director IVRI Dr. R.K. Singh for according permission to put the statue and help us in creating its foundation. As Head, Division of Surgery and In-charge of RVP, I take this opportunity to express my gratitude to Dr. P.E. Kulkarni, Dr. J.M. Nigam, Dr. Amresh Kumar, Dr. A.P. Singh, Dr. G.R. Singh and Dr. P. Kinjavdekar along with all other executive and general body members of ISVS for their help and support in installation of a statue of Maharishi Sushruta, the Father of Plastic Surgery, in front of New RVP building at IVRI, Izatnagar.

Appointments/Promotions

Dr. Vilas Daulatrao Aher joined as Director of Extension Education, Maharashtra Animal & Fishery Sciences University, Nagpur, Maharashtra on August 06, 2020. Dr. Vilas Daulatrao Aher, born on 21st October, 1963 in Maharashtra State of India is graduated from College of Veterinary Animal Science, Parbhani and obtained masters from Marathwada Agriculture University, Parbhani and doctoral degree from Maharashtra Animal & Fishery Science University, Nagpur. He has more than 30 years' experience of Teaching, Research and Extension. After starting his career as Veterinary Officer, he worked as Professor and Head of Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Sciences, Parbhani and Udgir for several years and Associate Dean of Post Graduate Institute of Veterinary and Animal Sciences, Akola from May 2019 to July 2020. He worked as In-charge officer, Teaching Veterinary Clinical Complex, Internship Coordinator, Hostel Warden, Various Committees of College of Veterinary and Animal Sciences, Parbhani. He worked as member of various committees of Maharashtra Animal & Fishery Science University, Nagpur since 2019 viz Academic Council, Faculty of Veterinary Sciences and Chairman, Board of Studies in Veterinary Surgery and Radiology. He has 104 research articles at his credit out of which 14 articles have been published in international journals and 90 in national reputed journals. He has guided 36 M. V. Sc. Students for research of their degree programmers and handled total 02 research projects funded by national agencies as PI and 01 as Implementing Officer, Viz. Indian Council of Agricultural Research (ICAR) and Rashtriya Krishi Vikas Yojana (RKVY), respectively.



He has been elected as member of Maharashtra State Veterinary Council, Nagpur and worked as member of MSVC Since 2007 to 2018. He has worked as Secretary of Board of Studies, Finance Secretary of Marathwada Chapter of Indian Society for Veterinary Surgery, Secretary of Parbhani Veterinary Alumni Association and Ex-Officio President of PGIVAS Akola Alumni Association. He was nominated as Zonal Secretary, Indian Society for Veterinary Surgery for the year 1999-2001; Appointment to the Research Board of Advisors 1999 by American Biographical institute, Inc.; Zonal Head for www.vetsjobindia.com; Life member of Bioinformatics Institute of India he has Worked as Chairman of Advisory Council, CPCSEA, Bio safety, Radio-safety IAEC Committee of Post Graduate Institute of Veterinary and Animal Science, Akola. He also worked as member of various committees framed by Govt. and District Administration at Parbhani and Akola viz. SPCA, Vision Document of Parbhani District; Akola Zilla Praniklesh Pratibandh Society, Akola Zilla Staryi Pranjanya Aajar Samiti, Akola etc.

He has written one chapter in Hand book and published one book in Marathi and one monograph. He has developed more than 10 technologies for the benefit of farmers and entrepreneurs and has done many extension education activities. He organized 28 Trainings / workshop / seminar / conference in the field of Veterinary Sciences. He is a Life member of seven professional

Associations. He has worked with Veterinary Council of India (VCI) as an expert member for inspection of colleges. He has been honored with 12 Awards.

Presently he is working as University Head, Department of Veterinary Surgery and Radiology, MAFSU, Nagpur and officiating post of Director Extension Education, Maharashtra Animal and Fishery Sciences University, Nagpur.

Dr. Navdeep Singh joined as Head of the department of Veterinary Surgery and Radiology, College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana on September 16, 2020.



Dr. Deepti Sharma joined as Assistant Professor in the Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur in October 07, 2020.



Dr Rohit Kumar joined as Assistant Professor (Surgery) in the Department of Veterinary Clinical Complex, College of Veterinary and Animal Sciences, Chaudhary Sarwan Kumar Himachal Pradesh Krishi Vishvavidyalaya, Palampur in October 05, 2020.



Dr. R.K. Chandolia (Retd Professor & Head, and Comptroller) has joined as Consultant cum Officer In-charge at National Institute of Animal Welfare (NIAW), Ballabgarh of Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar (Haryana) on September 22, 2020.



Kamdhen University, Gujarat marching ahead...!

Kamdhen University (KU) with its Headquarters at Gandhinagar, Gujarat is now full-fledged, due to recent amendment in its Act (Gujarat Act 15 of 2020). With this amendment, KU has four each of Veterinary & Dairy and two Fisheries Colleges under its umbrella. Along with this, there are associated Research Centers, Livestock Research Stations etc. The four Veterinary Colleges are located at Anand, SK Nagar, Navsari and Junagadh, while four Dairy Colleges at Anand, SK Nagar, Amreli and Mehsana (Affiliated). Two Fisheries Colleges are at Veraval and Navsari.

It is noteworthy to mention that Dr. N.H. Kelawala, Vice Chancellor, KU is a Surgeon and esteemed member of ISVS. The ISVS congratulates Dr. Kelawala, Vice Chancellor for this achievement. A proud moment for all surgeons and veterinary fraternity.



Kindly visit University website for more updates [www.ku-guj.org]; <https://www.facebook.com/KamdhenUniversity>; <https://twitter.com/KamdhenUni>

Conferences/Symposia/Seminars

National Online Clinical Case Conference-2020 on 'Emerging Horizons in Veterinary Diagnostics and Therapeutics' was held at Post Graduate Institute of Veterinary and Animal Sciences, Akola (Maharashtra Animal and Fishery Sciences University, Nagpur) from October 12 to 14, 2020.

The event was organized under the Chief Patronage of Prof. Col. Dr. A.M. Paturkar, Hon'ble Vice Chancellor of MAFSU, Nagpur and the Conference was inaugurated by Prof. Col. Dr. A.K. Gahlot, Former Vice Chancellor Rajasthan Veterinary University, Bikaner in the presence of Prof. Dr. A.P. Somkuwar, Director of Instructions and Dean, Faculty of Veterinary Science, Prof. Dr. N.V. Kurkure, Director Research and Prof. Dr. V.D. Aher, Director Extension Education, MAFSU, Nagpur. The e-Compendium of Conference was released ONLINE by the Chief Guest during inaugural program.



Dr. AK Gahlot; (Former Vice Chancellor, Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), Bikaner) Chief Guest; addressing inaugural function

Prof. Dr. A.U. Bhikane, Associate Dean, PGIVAS, Akola and Chairman of the organizing committee welcomed all the participating students, faculty members, research scholars, professionals and addressed the significance of theme of conference. The organizing secretary, Dr. Ranjit Ingole explained outline of programme, details of presentation competition scheduled during various sessions of conference. Mr. Karunanithi, Alembic Pharmaceuticals Ltd. expressed wishes as a Knowledge Partner for said event.

The three-days conference was consisting of Technical Sessions on Veterinary Clinical Medicine, Veterinary Surgery and Radiology, Animal Reproduction, Gynaecology and Obstetrics and Veterinary Para-clinical and Diagnostics, wherein 154 students across the nation participated in the online conference.

The Lead Speakers Dr. G. Vijaykumar, Professor & Head, Chennai; Dr. D. Dilipkumar, Dean, College of Veterinary Sciences, Bidar, Dr. A. Kumaresan, Principal Scientist, NDRI-Bangalore and Dr. D.S. Suryawanshi, Director-Omega labs, Pune delivered talks on various topics during their respective sessions and enlightened knowledge of participants.

The presentation competition held online was evaluated by various eminent scientists from across the country. For Veterinary Clinical Medicine Dr. K. Satish Kumar, Hyderabad, Dr. S. Sivaraman, Salem (TN), Dr. Neelesh Sharma, SKUAT, Jammu; for Veterinary Surgery session, Dr. Ashok Kumar, Hisar (Haryana), Dr. M. Raghunath, Tirupati and Dr. Ravi Raidurg, Shimoga Karnataka; For ARGO session Dr. B. N. Sutar, Dantiwada, Dr. R. J. Bijurkar, Bidar and Dr. G. K. Mishra, Anjora Durg and for Vety. Para clinical Session Dr. S. K. Panda, Bhubaneshwar, Dr. A. K. Jayrao, Mhow and Dr. K. L. Phaniraja, Bangalore acted as Hon'ble Jury members, respectively.

During concluding session, Dr. Ratnakar Raulkar, Co-organizing Secretary presented the report of the conference. Total 195 participants from 12 states of India participated in the conference. 27 undergraduate and 71 postgraduate students presented their Clinical Case Papers through online platform. Dr. Pravin Bankar, Co-organizing Secretary announced the results of the competition and congratulated the winner students on behalf of the organizing committee. Winner students were awarded with Medals and certificates. At the last, Dr. Mahesh Ingawale and Dr. Sunil

Waghmare, Co-Chairman expressed their gratitude by paying vote of thanks towards all the Patrons, Chief Guests, Lead Speakers, Jury members, Participants and Sponsors & Media persons. Prof. Dr. Chaitanya Pawshe, Dr. Milind Thorat, Dr. S.V. Kuralkar, Dr. Deshmukh, Dr. Rathod, Dr. Pajai, Dr. Hajare, Dr. Badukale and Dr. Panchbhai exerted for successful organization of the event.

Upcoming Events

The 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" to be organized by the Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Sciences, G.B. Pant University of Agriculture and Technology, Pantnagar, Udham Singh Nagar from November 5-7, 2020 has been postponed due to COVID-19. The new dates will be communicated after taking the stock of the situation.

Trainings

Training on "Surgery for birth control in monkeys"

The Department of Veterinary Surgery & Radiology, Veterinary College, Shivamogga, Karnataka conducted a three days training programme on "Surgery for birth control operations in monkeys" for fifteen Officers of Department of Animal Husbandry and Veterinary Services, Government of Karnataka from 02-04 September 2020. Dr Ravi Raidurg, Associate Professor & Head was the Course Director of the training.

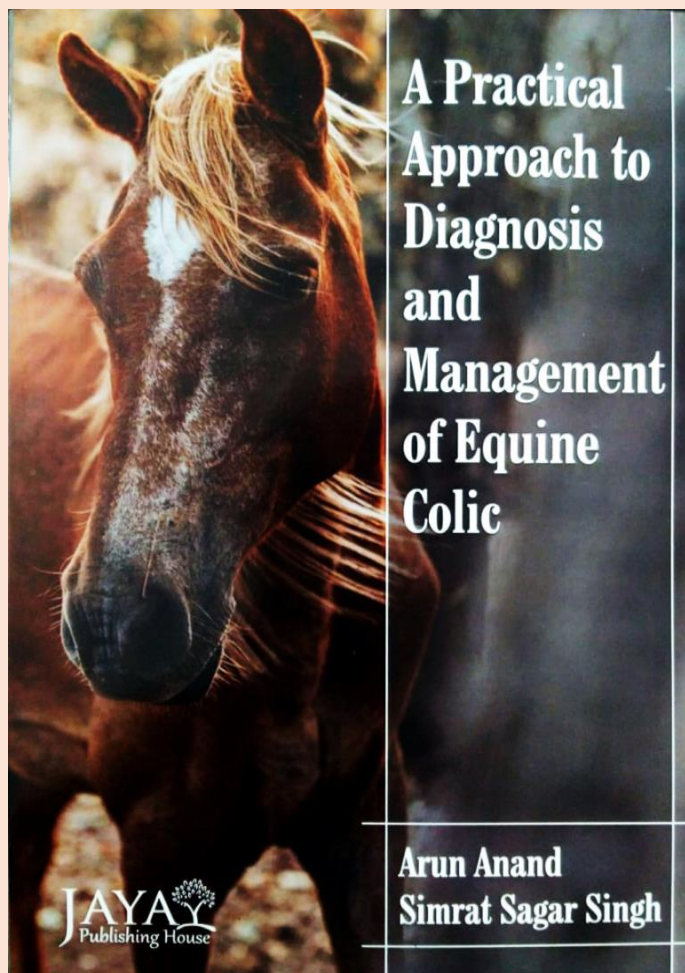


The Hands-on training programme was aimed to empower the field veterinarians in the area of wild life management and expose them to animal birth control operations in monkeys with the objective of controlling the monkey menace in Sagar district by way of performing vasectomy in males" and tubectomy in females. The training programme included lectures on various topics: Safe handling and restraint of non-human primates, Anaesthetic protocols for birth control operations in non-human primates, Vasectomy and laparoscopic tubectomy in monkeys, Post-operative care in monkeys after vasectomy and tubectomy, Common diseases and disorders of non-human primates, Use of Immobilization Equipment – Dart Gun & Blow Pipe), assessment of general health condition, approximation of body weight, calculation and injection of anaesthetic by intra muscular route. The surgical techniques for vasectomy and laparoscopic tubectomy in monkeys were also demonstrated. The lectures and demonstration of various surgical techniques on monkey were given by the experts in the subject namely Prof Prakash N, Dean, veterinary College, Shivamogga, Dr Sadashiva TM, Deputy Director, AH & VS, Shivamogga and Dr Ravi Raidurg, Associate Professor & Head, Dept of Surgery & Radiology, Dr. Nikita Nishit Salian (wild life expert), Dr. Sujay C S (wild life expert), Assistant Director (Vety), Shimoga Zoo & Safari, Tyaverekoppa, Shivamogga, Dr. Patel Suresh Revanna, (Co Course Director), Associate Professor, Department of Veterinary Medicine, Veterinary College, Shivamogga.



New Publications

A book on **Practical Approach to Diagnosis and Management of Equine Colic (2020)** by **Arun Anand** and **SS Singh** has been published. The book encompasses various topics on equine colic such as applied anatomy of equine digestive tract, colic: a sign of gastrointestinal pathology, physical examination, laboratory tests and procedures, decision making in equine colic: to cut or not to cut, medical management of colic, surgical management of colic, post-operative care and management.



A book on **Mesenchymal Stem Cell in Veterinary Science (2020)** by **Mudasir Bashir Gugjoo** and **Amar Pal** has been published. This book makes a systematic collection of the scientific information scattered in the literature on different aspects of stem cell research. The focus of the book is on mesenchymal stem cells as they have been investigated most extensively for therapeutic application in animals. The contents of the book have been designed to include all the relevant information about the mesenchymal stem cells of animal origin. The initial chapter covers the historical aspect and chronology of developments in the field of stem cell research. The details about the basic properties and nature of the stem cells are provided. A comprehensive account of the materials and methods used for isolation of mesenchymal stem cells from different sources, culture expansion, characterization and long-term storage has been given in the subsequent chapters. The book also provides a logical appraisal of the mechanisms involved in therapeutic efficacy, immunomodulation and anti-inflammatory properties of mesenchymal stem cells. The book also highlights knowledge about the interaction between the stem cells and their environment and factors responsible



for the maintenance of stemness. A chapter in the book has been dedicated to genetic engineering relevant to stem cell research for their better exploitation for research and therapy in animals. The major section of the book is devoted to the recount of the research efforts and their outcomes towards the potential application of mesenchymal stem cells in regenerative research and therapy in important species of domestic and pet animals including sheep, goat, cattle, buffalo, cat, dog and horse. The book also presents an abridgement of challenges and future prospects of stem cell research and application in medicine in general and veterinary sciences in particular.



From Surgical Floor

Surgery specialists of the Kerala Veterinary and Animal Sciences University (K.V.A.S.U.) Pookode, had again been a part of history by tele-guiding a very rare surgery for a puppy in Malaysia. A three-month old pup named “Budhi” had difficulty swallowing food, and was taken to the veterinary hospital in Penang province of Malaysia. The hospital is where Dr. Shibu Sulaiman, an alumnus of the K.V.A.S.U is the Head Surgeon. Dr Shibu, tentatively diagnosed the puppy to be suffering from a very rare, congenital disorder of the oesophageal opening “cricopharyngeal dysphagia”. He took second opinion and discussed the case with the surgery specialists in Veterinary College Pookode and Mannuthy, and University Putra Malaysia. The diagnostic department at University Putra Malaysia helped him and confirmed the diagnosis using video fluoroscopy which is the standard diagnostic imaging method to confirm this rare condition known by name “cricopharyngeal dysphagia/achalasia”. Being a very rare disorder, very few across the world had performed this rare surgery, and hence it was a challenge for Shibu and his team to correct it surgically. He discussed the same with his



veterinary friends, surgeons and practitioners across universities in US, UK, Bangkok, Australia, Netherlands for advice and knowhow if anyone have performed corrective surgery for this disorder. Being such a rare surgery, they haven't performed or seen one such case. The University which he came to know had performed this procedure was neither willing to share the technical advice nor its video for him to perform the corrective procedure because of client patient privilege. He then took the challenges with his own alma mater – the Kerala Veterinary and Animal Sciences University Pookode. The surgery specialists Dr. Sooryadas S., Dr. Dinesh P.T. and Dr. Remya V., in the Veterinary University Pookode had taken up the challenge to tele-guide and supervise from Pookode, this rare surgical procedure, even though they had not encountered this rare case or done such a surgical procedure. This rare disorder was corrected by the surgical procedure known as cricopharyngeal myectomy, where a small portion of the muscles guarding the oesophageal opening is cut and removed. Apart from the size of the dog, the peculiar and complex anatomy of the region to be operated, was a great challenge for the surgeons. The surgery was completely tele-guided from Pookode on the 7th of September 2020 and Dr. Shibu along with Dr. Teh Ai Ling, Dr. Amal Bhaskar and Dr. Lee Perng performed the surgery in Malaysia. Following surgery, the puppy was observed for more than a week at Windsor Animal hospital and discharged with normal swallowing of food like any other dog.



Webinars

Dr. Adarsh Kumar, Professor and Head, Department of Veterinary Surgery and Radiology, GCN Veterinary College, CSKHPAU, Palampur delivered a webinar on “Equine Abdominal Sonography – A diagnostic update from basics to logical decision making” on 03.07.2020.



Dr. S. Ayyappan, Professor, Department of Veterinary Surgery and Radiology, Madras Veterinary College, TANUVAS, Chennai delivered a webinar on “Management of Spinal disorders in canines – A clinical perspective” on 10.07.2020.



Dr. K.K. Sarma, Professor and Head, Department of Veterinary Surgery and Radiology, CVSc, Assam Agricultural University, Guwahati delivered a webinar on “Challenges in Wildlife Anaesthesia and Surgery” on 17.07.2020.



Mala Shammi, Professor, Department of Veterinary Surgery and Radiology, Madras Veterinary College, TANUVAS, Chennai delivered a webinar on “A holistic approach to brachycephalic syndrome in dogs” on 24.07.2020.



Dr. Tarun Kumar Gahlot, Professor (Retd.), Department of Veterinary Surgery and Radiology, RAJUVAS, Bikaner delivered webinars on “Current trends in management of ruminant surgical affections” and “Current trends in surgico-diagnosis of equine clinical entities” on 07.08.2020 and 23.10.2020, respectively.



Dr. S. Dharmaceelan, Professor and Head, Department of Veterinary Surgery and Radiology, VCRI, TANUVAS, Namakkal delivered a webinar on “Intestinal surgery in ruminants: an update” on 14.08.2020.



Dr. A. Arun Prasad, Professor, Department of Veterinary Surgery and Radiology, Madras Veterinary College, TANUVAS, Chennai delivered a webinar on “CT imaging features of clinical entities in small animal practice: a pictorial essay” on 21.08.2020.



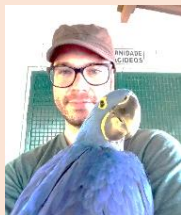
Dr. T.N. Ganesh, Senior Lecturer and Head, Department of Clinical Veterinary Sciences, School of Veterinary Medicine, The Uni. Of the West Indies, Trinidad & Tobago delivered a webinar on “Clinical teaching and learning Veterinary surgery during COVID-19 – managing the challenges of virtual teaching, learning and telemedicine” on 28.08.2020.



Dr. Matthias Frank, Clinic Director and Chief Surgeon, Small Animal Hospital, Freiburg, Germany delivered webinars on “Orthopedic examination and common pathologies of the forelimb in small animals” and “Orthopedic examination and common pathologies of the hindlimb in small animals” on 05.09.2020 and 19.09.2020 respectively.



Dr. Plinio F. Mantovani, Wild Animal Surgeon, Sao Paulo and Minas Gerais, Coordinator, The Lear’s Macaw Rescue Program, Brazil delivered webinars on “Avian soft tissue surgery – instrument and techniques” and “Decision making in avian orthopedics” on 12.09.2020 and 01.10.2020 respectively.



Dr. Ameet Singh, Assoc. Professor, Small Animal Surgery, Ontario Veterinary College, University of Guelph, Canada delivered webinars on “Minimally invasive surgical treatment of chylothorax” and “Laparoscopic treatment of adrenal gland tumors” on 25.09.2020 and 19.11.2020 respectively.



Dr. Arul Jothi, Professor, Department of Veterinary Surgery and Radiology, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry delivered a webinar on “Surgical management of teat and udder affections in cattle” on 10.10.2020.



Dr. Indramani Nath, Professor and Head, Department of Veterinary Surgery and Radiology, CVS and AH, OUAT, Bhubaneswar delivered a webinar on “Treating wild animals - a blend of science, art and adventure” on 16.10.2020.



Dr. M Raghunath, Professor, Department of Veterinary Surgery and Radiology, CVSc, SVVU, Tirupati delivered a webinar on “Evolution of plating procedures for repair of canine long bone fractures” on 07.11.2020.



Dr. Bhupen Sarma, Professor, Department of Veterinary Surgery and Radiology, CVSc, Assam Agricultural University, Guwahati delivered a webinar on “Wildlife immobilization and anesthesia: field experience” on 28.11.2020.



Dr. Kasturi Bhadsavle, Veterinary Ophthalmologist and Founder of “The Eye Vet Clinic”, Pune delivered a webinar on “Corneal Grafting in Veterinary Practice” on 05.12.2020.



Dr. G.S. Khandekar, Professor, Mumbai Veterinary College, MAFSU, Mumbai delivered a webinar on "Minimal invasive surgery in small animals - clinical experience" on 12.12.2020.



Dr. Naveen Kumar, Principal Scientist, IVRI, Izzatnagar, UP, delivered a webinar on "Biomaterials from Abattoir Waste: Lab to Clinical Applications" on 19.12.2020.



Dr. Navdeep Singh, Professor and Head, Department of Veterinary Surgery and Radiology, College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana delivered a webinar on "Basics of Canine Echocardiography" on 26.12.2020.



The webinars were organized and coordinated by Drs. Deepak Kumar Tiwari, Divyesh Kelawala and Neelesh Sindhu in collaboration with Knowledge partner Intas Animal Health on Microsoft Teams and were also uploaded on YouTube Channel of ISVS.



Dr. Deepak Kr Tiwari



Dr. Divyesh Kelawala



Dr. Neelesh Sindhu

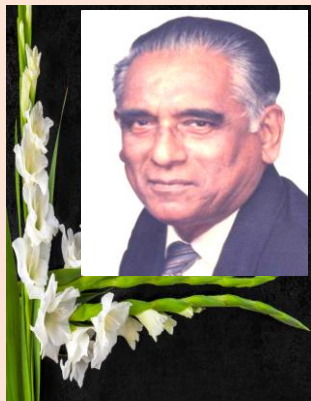
Remembrance

Dr Godfrey David former Professor and Head Department of Veterinary Surgery and Radiology passed away on September 19, 2020.

Dr David was born on 4th May 1928. He was the elder brother of late Archibald Balraj David.

He was the graduate of Madras Veterinary College and completed his master's and doctoral programme from the same institute. He served the university in various positions as Assistant professor, Associate Professor, Professor and Head, Department of Surgery and Radiology. He has immensely contributed to the profession in the field of Veterinary Surgery, as a teacher, guide and clinician. He has published several manuscripts, research papers, and popular papers.

The ISVS expresses heartfelt condolences to his family at this moment of sorrow and pray Almighty for his soul to rest in peace.



Dr Archibald Balraj David entered into glory at 11.0 pm on 13th August, 2020 after a brief period of illness. Dr Archibald was born on 25th 1943. He graduated from Madras Veterinary College in 1962 and completed his M V Sc and Ph D degrees in veterinary surgery in 1969 and in 1992 respectively. He has served Madras Veterinary College, Tamil Nadu University Veterinary and Animal Sciences University throughout his professional career in various positions as Assistant Professor,



Associate Professor and Professor and Head Department of Veterinary Surgery and Radiology. He superannuated in 2003 from the post Director Clinics Tamil Nadu Veterinary and Animal Sciences University, Chennai.

Dr Archibald has contributed immensely as Teacher, Clinician and Research Worker. He has shaped several successful surgeons and guided several students for Master's and Doctoral programmes in veterinary surgery and Radiology including Cardiopulmonary Bypass Surgery in small animals for the first time in India. He has published several manuscripts, research papers and popular articles. Dr Archibald David will always be remembered for his contribution in the field of small animal surgery.

He is survived by his daughter and wife.

The ISVS expresses heartfelt condolences to his family at this moment of sorrow and pray Almighty for his soul to rest in peace.

Dr. R. Sureshkumar breathed his last on September 18, 2020.

Dr. Sureshkumar was born on 09.8.1952. He joined Madras veterinary college for B.V.Sc degree course in the year 1972. He worked as Junior Manager (Veterinary), TNDDC, Ooty from 1978 to 1981 in Udhagai district after his graduation. He completed his M. V. Sc. in 1984 and PhD in 1993. He has served the University in various positions as



Assistant Professor, Associate Professor and as Professor and Head Department of Veterinary Surgery and Radiology and Department of Clinics and retired in 2012.

He has shaped several successful surgeons and guided nine M.V.Sc students and five doctoral students. in veterinary surgery including research in small animal soft tissue surgery surgical oncology, and wild animal surgery. Some of his milestones and contribution to the Department include. He has published several manuscripts, research articles and popular articles.

He is survived by his two sons and wife.

The ISVS expresses heartfelt condolences to his family at this moment of sorrow and pray Almighty for his soul to rest in peace.

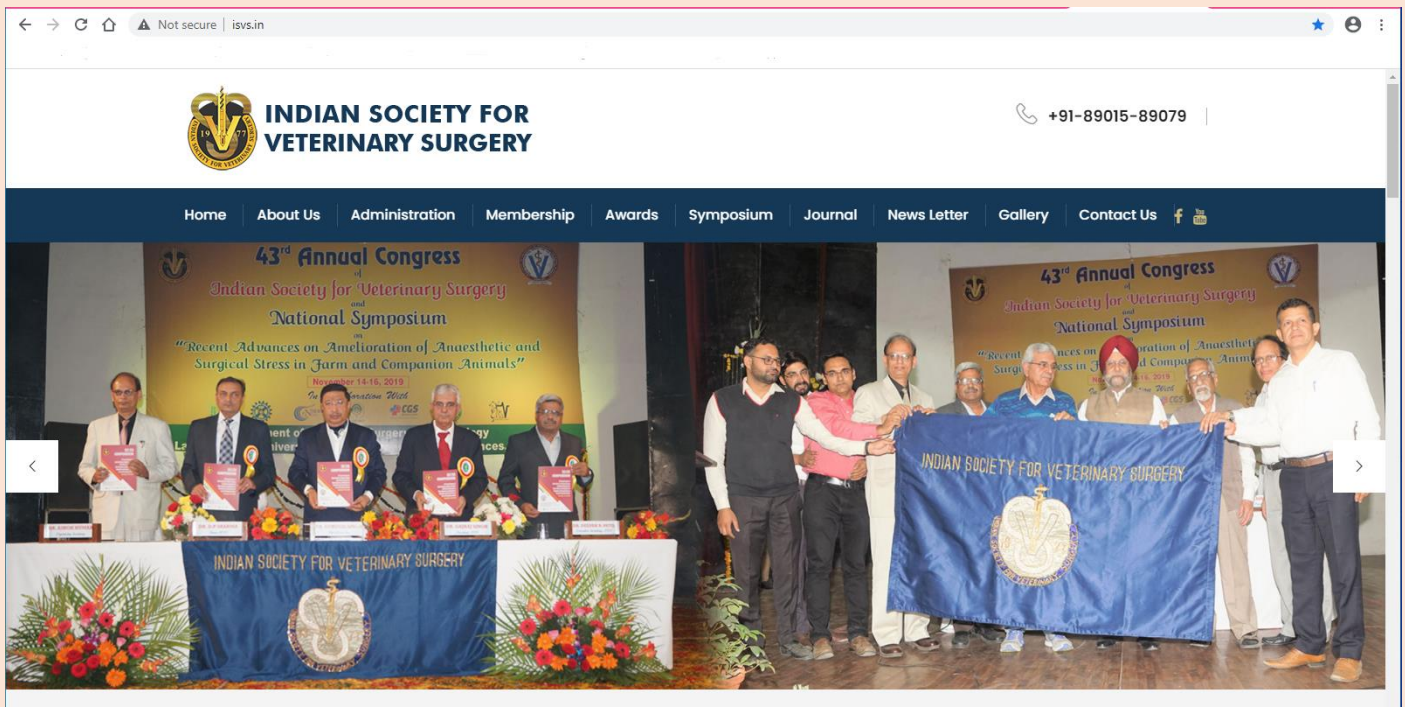


They were ingenious surgeons and, lest we forget, very fine human beings as well

Guidelines for protection from contracting and transmitting COVID-19

- ✚ Wash your hands frequently and carefully with warm water and soap for at least 20 seconds or use hand sanitizer when you cannot wash your hands properly.
- ✚ Wear gloves, wash or change them daily.
- ✚ Avoid touching door knobs, handles and banisters or handrails.
- ✚ Avoid touching your face, eyes, nose and mouth with unwashed hands.
- ✚ Stop shaking hands and hugging people.
- ✚ Don't share personal items like cell phones, makeup, comb etc.
- ✚ Wear a (homemade) mask. A mask shouldn't be worn by a child under 2 years old, a person who has trouble breathing, or a person who can't remove the mask on their own.
- ✚ Cover your mouth and nose when you cough and sneeze.
- ✚ Clean and disinfect surfaces like countertops door handles furniture toys phone laptop and anything else you use regularly several times a day.
- ✚ Take physical (social) distancing seriously; keep a distance of 6 feet (2 m) from other people.
- ✚ Do not gather in groups.
- ✚ Avoid eating or drinking in public places.
- ✚ Wash fresh foodstuff under running water before eating or preparing. Be sure to wash hands before and after handling these items.
- ✚ Self-quarantine, if sick.

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



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ISVS YouTube Channel

<https://www.youtube.com/channel/UCxED3ZT3uOAPFy3fXXvb0-w>

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