

Department of Veterinary Surgery and Radiology

Research

1. List of Research Projects: Completed & Ongoing

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed/ Ongoing)	Duration
1.	Strengthening and modernization of Department of surgery and radiology and training to field veterinarians	Dr. Sanjeev S. Pitlawar	RKVY, Maharashtra Government	288.	Extra-mural Rashtriya Krishi Vikas Yojana	Completed	2 Years
2.	Awareness-cum-control program for foreign body syndrome in cattle/buffalo of Scheduled Tribe	Dr. Sanjeev S. Pitlawar	ICAR, TSP	38.85	Extra-mural Indian Council of Agricultural Research, Tribal Sub Plan	Completed	1 Years

2. List of Private Agency Projects:

Sr. No.	Title of the Project	Name of PI/ Major Advisor/ Research Worker	Funding Agency	Total Cost of the project (Rs in Lakh)	Extra-mural (Funding agency)/ Intra-mural	Status (Completed /Ongoing)	Duration
1.	NIL						

3. Research Priorities:

Sr. No.	Research Area	Aim	Objective	Benefits of Farmers
1.	Large Animal Anaesthesia	To establish the general anaesthetic protocol suitable on field with meager facilities	1. To develop a safe and effective general anaesthetic protocol tailored for large animals that relies on readily available drugs and minimal	1. Reduced Treatment Costs: By using cost-effective anaesthetic agents and minimal equipment, farmers save on veterinary expenses while still ensuring safe procedures for their animals.

			<p>equipment, ensuring practicality in remote or resource-limited field settings.</p> <p>2. To ensure the chosen anaesthetic protocol maintains adequate analgesia, muscle relaxation, and cardiovascular-respiratory stability while allowing for ease of administration and rapid recovery in field conditions</p>	<p>2. Improved Animal Welfare and Productivity: Safe and efficient anaesthesia in the field minimizes animal stress and complications, leading to faster recovery and return to normal function—preserving productivity, especially in working or lactating animals.</p>
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4. Thesis:

Master:

Name of Department: Veterinary Surgery and Radiology				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of
1.	Sanjay Kumar Vitthal Rao Udharwar	Studies on incidence symptomatology and treatment of horn cancer with special reference to anti cancerous drug	2004	Dr BP Dandage
2.	Balasaheb Ravindra Motipavale	Studies on bovine foreign body syndrome in Udgir area	2005	Dr VD Aher
3.	Harishchandra Janardan Abhyankar	Congenital prolapse in bovine and its treatment by horizontal mattress and button fixation suture	2012	Dr CL Badgujar
	Ruchir Ramesh Rao Deshmukh	Evaluation of efficacy of citric acid Jelly for the healing of chronic wound in bovines	2012	Dr VM Salunke
4.	Khushbu Rajiv Shah	Intra medullary interlocking nailing for long bone fractures in small ruminants (goats and sheep) and calves	2012	Dr CL Badgujar
5.	Ashwinkumar Namdevji Meshram	Diagnosis and Surgical Management of internal obstruction in bovines	2013	Dr CL Badgujar
6.	Sushil Banajee kolpe	Evaluation of computed radiography and metal detector for diagnosis of foreign body	2013	Dr CL Badgujar

		syndrome and its Surgical management in bovines		
7.	Pavankumar Gangadhar Rao komalwar	Study on ultrasonography of thoracic cavity with emphasis on foreign body syndrome in Marathwadi buffaloes	2014	Dr CL Badgujar
8.	Kamalkishor Prabhakar Rao kalse	Surgico-chemotherapeutic management of cornio-conjunctival growth in bovine	2015	Dr CL Badgujar
9.	Ashish Anant Mane	Ultrasonography evaluation and management of surgical affection of teat in bovine	2016	Dr CL Badgujar
10.	Vijay Baburao Ghonshikar	Surgico therapeutic management of anterior segment affection of eye ball in bovine	2016	Dr CL Badgujar
11.	Sheikh azmat Sheikh Maulana	Efficacy of ropivacaine and lignocane hydrochloride for epidural anaesthesia in Buffalo	2017	Dr CL Badgujar
12.	Sachin Jaywant kolpe	Clinical and ultrasonographic evaluation of male genital affections and its Surgical management in cattle	2018	Dr CL Badgujar
13.	Ruchali Kishor Ghatge	Surgico therapeutic management of teat and udder in cattle	2018	Dr CL Badgujar
14.	Ramakant Tatya rao Dhawle	Comparative evaluation of Xylazine-Ketamine-Guafensin and ketamine-guafensin anaesthesia for urogenital surgeries in male cattle	2018	Dr SS Pitlawar
15.	Trupti Thavardas Kherkar	Evaluation of Ketamine-Guafensin and isoflurane anaesthesia for diaphragmatic herniorrhaphy in buffaloes	2019	Dr SS Pitlawar
16.	Dr. Suraj Santosh Borakhede	Evaluation of port placement approaches for thoracoscopic examination in cattle	2021	Dr SS Pitlawar
17.	Dr. Abdul Khyaum NM	Evaluation of ketamine-guaifenesin and sevoflurane for maintenance of anaesthesia during conventional and laparoscopy guided diaphragmatic herniorrhaphy in bovine	2021	Dr SS Pitlawar
18.	Dr. Sanjay Uttam Rathod	Comparative evaluation of conventional and laparoscopic tube cystostomy in cattle calves	2021	Dr SS Pitlawar
19.	Dr. Chiranjeevdhar Yugdhar Pathak	Radiographic and ultrasonographic evaluation for	2021	Dr SS Pitlawar

		diagnosis of hydrothorax and its surgical management in buffaloes		
20.	Dr. Prashant Chandrakant Londhe	Comparative evaluation of isoflurane and sevoflurane for maintenance of anesthesia in cattle	2021	Dr SS Pitlawar
21.	Supreet Kumar Sagar	Optimization on port placement approaches for laparoscopy in buffaloes	2023	Dr SS Pitlawar
22.	Ganesh Baban Swami	Radiological evaluation for potential foreign body location in Thorax and its Surgical Management in cattle	2023	Dr SS Pitlawar
23.	Abhishek Chandrakant Ghodke	Anaesthetic efficacy of diazepam ketamine guaifensin combination to relieve esophageal obstruction in Buffalo	2024	Dr SS Pitlawar
24.	Amey Avinash Nirmale	Anaesthetic efficacy of xylazine ketamine guaifensin combination for Cesarean Section in Buffalo	2024	Dr RV Surywanshi

Doctoral:

Name of Department:				
Sr. No.	Name of the Student	Title of Thesis	Year of Completion	Name of the Advisor
	NIL			

5. Research Papers Published:

List of Research Publications:

Sr. No.	Title of Paper	Name of Journal, Vol. No., Year
1	Comparison of Retention sutures and Button Fixation Sutures for Surgical Retention of Genital prolapse in Bovine HJ Abhyankar, CL Badgujar, KS Chaudhari, SS Pitlawar, AU Bhikane, AD Patil, KR Shah	J. Bombay Vet. College (2015) 22(2) : 20-23.
2	Surgical Management of Horn Affections- A report of 2 Bullocks. S.S. Pitlawar, B.M. Gahlod, S.B. Akhare, S.V. Upadhye and P.T. Jadhao	Intas Polivet (2016) 17(2):239-240.
3	Clinical Management of Corneal Opacity – A study of 11 Dogs. P.T. Jadhao, S.V. Upadhye, S.P. Salvekar and S.S. Pitlawar	Intas Polivet (2016) 17(2):383-385.
4	Clinical Studies on Autologous Skin grafting in Dogs. Nitya Nirody, S. B. Akhare, P.T. Jadhao, S.P. Salvekar, S.S. Pitlawar and P.T. Jadhao	J. Bombay Vet. College (2016) 23(2) : 24-29.
5	Clinical Evaluation of Total Intravenous Anaesthesia in Donkeys for	J. Bombay Vet. College (2017) 24(2) : 88-89

	Castration Under Field Condition. Pansare V.P., S.S. Pitlawar, P.T. Jadhao, S.B. Akhare, B.M. Gahlod and P.M. Sonkusale	
6	Hemato-Biochemical Changes During Guaifenesin-Ketamine-Xylazine and Diazepam-Ketamine-Xylazine Triple Drip Anaesthesia For Gelding in Equines. S.S. Pitlawar, P.T. Jadhao, B.M. Gahlod, S.V. Upadhye, S.B. Akhare, M.S. Dhakate, and N.V. Kurkure	The Blue Cross Book, (2017) 36: 30-35.
7	Evaluation of comparative Efficacy of Xylazine-Ketamine-Guaifenesin and Ketamine-Guaifenesin Anaesthesia for Surgical management of urogenital Affections in Cattle. Dhawale, R. T., S.S. Pitlawar, C.L. Badgujar, S.M. Agivale, M.K. Patil and V. N. Khandit.	J. of Entomology and Zoology Studies. (2019)7(1): 465-469.
8	Evaluation of Guaifenesin-Ketamine-Xylazine and Diazepam-Ketamine-Xylazine Triple Drip Anaesthesia For Gelding in Equines. S.S. Pitlawar, P.T. Jadhao, B.M. Gahlod, S.V. Upadhye, M.S. Dhakate, S.B. Akhare, and N.V. Kurkure	International J. of Chemical Studies. (2019) 7(1): 975-979.
9	Surgical management of diaphragmatic hernia in a buffalo (<i>Bubalus bubalis</i>) under isoflurane anaesthesia, TT Kherkar, SS Pitlawar, CL Badgujar, KS Chaudhari and SM Agivale	Ruminant Science (2019)-8(1):141-142
10	Surgical Management of Ruptured Superficial and Deep Digital Flexor Tendon in a Bullock SS Borakhede, SM Agivale, SS Pitlawar, KS Chaudhary	Intas Polivet (2019) 20 (1), 57-58
11	Biochemical studies of guaifenesin-ketamine-xylazine anaesthesia for castration in donkeys VP Pansare, SS Pitlawar, PT Jadhao, BM Gahlod	Intas Polivet (2019) 20 (2), 281-283

Sr. No.	Title of Paper	Author(s)	Name of Journal, Vol. No., Year, ISBN/ISSN No.
1	Surgical Management of Ruptured Superficial and Deep Digital Flexor Tendon in a Bullock	S.S. Borakhede, S.M. Agivale, S.S. Pitlawar and K.S. Chaudhary	Intas Polivet (2019) Vol. 20 (I): 57-58
2	Evaluation of guaifenesin-ketamine-xylazine and diazepam-ketamine-xylazine triple drip for gelding in equines	Pitlawar S.S., P.T. Jadhao, B.M. Gahlod, S.V. Upadhye, M.S. Dhakate, S.B. Akhare and N.V. Kurkare	International Journal of Chemical Studies (2019) Vol 7(1):975-979
3	Evaluation of comparative efficacy of xylazine-ketamine-guaifenesin and ketamine-guaifenesin anaesthesia for surgical management of urogenital affections in cattle	Dhawale R.T., S.S. Pitlawar, C.L. Badgujar, S.M. Agivale, M.K. Patil and V.N. Khandait	Journal of Entomology and Zoology Studies 2019; 7(1): 465-469

4	Biochemical Studies of Guaifenesin-Ketamine-Xylazine Anaesthesia for Castration in Donkeys	V.P. Pansare, S.S. Pitlawar, P.T. Jadhao, B.M. Gahlod and S.B. Akhare	Intas Polivet (2019) Vol. 20 (II): 281-283
5	Surgical management of choke due to leather piece in pregnant buffalo	Abdul Khyum NM, S.S. Pitlawar, K.S. Chaudhari and S.S. Borakhede	IRE Journal /Vol 3 Issue 4/ISSN: 2456-8880:97-98
6	Study of physico-clinical parameters guaifenesin-ketamine-xylazine and diazepam-ketamine-xylazine driple anaesthesia	Pitlawar S.S., P.T. Jadhao, B.M. Gahlod, S.V. Upadhye, M.S. Dhakate, S.B. Akhare and N.V. Kurkure	International Journal of Applied Research 2019: 5(6): 01-03
7	Contracted tendon in eight calves	Abdul Khyum NM, S.M. Agivale, S.S. Pitlawar, K.S. Chaudhari and S.S. Borakhede	Indian Journal Veterinary Surgery 2020, 41(2) :142
8	Evaluation of port placement approaches for thoracoscopic examination in cattle	Borakhede SS, Pitlawar SS, Chaudhari KS, Kushwaha Neelam and Abdul Khyum NM	The Pharma Innovation Journal 2021; SP-10(11): 2778-2780
9	Evaluation of ketamine-guaifenesin and sevoflurane for maintenance of anaesthesia in buffaloes undergoing diaphragmatic herniorrhaphy	Abdul Khyum NM, Chaudhari KS, Pitlawar SS, Ghoke SS, Agivale SM and Borakhede SS	The Pharma Innovation Journal 2021; SP-10(11): 1000-1003
10	Anesthetic effects of ketamine-guaifenesin and isoflurane Anesthesia for diaphragmatic herniorrhaphy in buffaloes	Kherkar T.T., Pitlawar S.S., Badgujar C.L, and Chaudhari K.S.	Buffalo Bulletin (April-Original Article June 2022) Vol.41 No.2

List of Marathi and Popular articles published:

Sr. No.	Title of Abstract/Short communication/Research bulletins/Extension bulletins/Daily periodicals/ Magazine/Popular articles etc.	Year	Title of Conference / Seminar etc.	Organized /published by	Whether International / National
1	Intestinal obstruction due to double Intussusceptions in a German Shephard dog- A case report. Pg-76. Khante Gauri, S.V. Upadhye, S.B. Akhare, M.S. Dhakate, P.T. Jadhao and S.S. Pitlawar	2015-16	XIV Annual Conference of IAWV and National Seminar on Recent advances in Veterinary and Animal	KNPCVS, Shirwal, Maharashtra	National

			Sciences & Role of Women Veterinarians Compendium, Pune. 8-10 October, 2015.		
					Total
2	Successful Management of Zinc phosphate poisoning in a German Shephard dog. S.S. Pitlawar, G.R. Bhojne, M.P. Sakhare, P.T. Jadhao and Kalyani Thakur	2016-17	XIV Annual convection of Indian Society for advancement of Canine Practice and	COVAS, Pantnagar, Uttrakhand. 9-11 February, 2017.	National
3	Surgical Management of Gastric Dilation and Volvulus in Great Dane Dog. S.S. Pitlawar, P.T. Jadhao, S. B. Akhare and S. V. Upadhye	2016-17	National Symposium on “Newer Approach in Management of Canine Health and rewarding Clinical practice as well as Trade”	COVAS, Pantnagar, Uttrakhand. 9-11 February, 2017.	National
4	Pyometra In Bitches- Observations On 25 Cases. Pg-83. S.V. Upadhye, H.T. Jain, M.S. Dhakate, B.M. Gahlod, S.S. Pitlawar and S.P. Salvekar	2016-17	XIII Annual convection of Indian Society for advancement of Canine Practice and National Symposium on “Concept of one health in Canine health care management.	COVAS, Kerala Veterinary and Animal Sciences University Pookode, Kerala. 27-29 April.	National
5	Successful Management of 14 Cases Of Closed Pyometra In Pseudo Pregnant Bitches. Pg-89. S.S. Salvekar, A.R. Chauhan, G.S. Khante, P.T. Jadhao, S.V. Upadhye, S.B. Akhare, B.M. Gahlod, S.S. Pitlawar and M Pawade	2016-17	XIII Annual convection of Indian Society for advancement of Canine Practice and National Symposium on “Concept of	COVAS, Kerala Veterinary and Animal Sciences University Pookode, Kerala. 27-29 April.	National

			one health in Canine health care management.		
					Total
6	Surgical Management of testicular Tumour in a Buck- A Rare case. B.M. Gahlod, S.S. Pitlawar, P.T. Jadhao, S.B. Akhare and S.V. Upadhye	2017-18	41 Annual Congress of ISVS and National Symposium on “New Horizons in cancer research Pertaining to Effect on Health, Production and Reproduction in Animals”	Department of veterinary Surgery and Radiology, Sri Venkateswara Veterinary University, College of Veterinary Science, Tirupati (AP)	National
7	Tube Cystostomy for Treatment of Obstructive Urolithiasis in a Kid- A Case report. S.S. Pitlawar, B.M. Gahlod and P.T. Jadhao	2017-18	41 Annual Congress of ISVS and National Symposium on “New Horizons in cancer research Pertaining to Effect on Health, Production and Reproduction in Animals”	Department of veterinary Surgery and Radiology, Sri Venkateswara Veterinary University, College of Veterinary Science, Tirupati (AP)	National
8	Surgical Correction of Atresia Ani With Recto-Urethral Ductus In A Red Kandhari Male Calf- A Unique Report. Pg-201. A.P. Renuke, S.M. Agivale, V.M. Salunkhe, S.S. Pitlawar and A.U. Bhikane	2017-18	Clinical Case Conference 2018 on “Recent Trends of Clinical Case Management in Veterinary Practice”	Department of Surgery and Radiology, PGIVAS, Akola on 17-2-2018.	National
9	Surgical Management of Intussusception in Lal Kandhari Bullock. Trupti Kherkar, S.S. Pitlawar, S.S. Badgajar and S.M. Agiwale	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in	Department of VSR, NAU, Navsari. 22-24,	National

			Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	November, 2018.	
10	Surgical Management of Rectal Prolapse in a Marathwadi Buffalo. Trupti Kherkar, S.S. Pitlawar, S.S. Badgujar and S.M. Agiwale	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
11	Comparative Evaluation of Guaifenesin and Diazepam in Xylazine -Ketamine Induced Total Intravenous Anaesthesia in Equines for Gelding. S.S. Pitlawar, P.T. Jadhao, B.M. Gahlod, M.S. Dhakate, S.V. Upadhye, S B. Akhare, and N.V. Kurkure	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
12	Comparative Evaluation of Xylazine-Ketamine-Guaifenesin and Ketamine-Guaifenesin Anaesthesia for Urogenital Surgeries in male Cattle. Dhawale, R.T., S.S. Pitlawar, C.L. Badgujar, S.M. Agiwale, M.K. Patil and V.N. Khandit	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
13	Theloresectoscopy for Treatment of Teat Canal Obstruction in Six Lal Kandhari and Deoni Cows	2017-18	42 nd Annual Congress of ISVS and National	Department of VSR, NAU, Navsari. 22-	National

	from Udgir. Ghatage, R.A., C.L. Badgujar, S.S. Pitlawar, P.E. Taksande and S.M. Agiwale.		Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	24, November, 2018.	
14	Clinical and ultrasonographic Assessment of Surgical Affections of Teat in Cows and Buffaloes in Udgir (MS). Mane, A. A., C. L. Badgujar, S. M. Agiwale. S.M. Mugale and S.S. Pitlawar	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
15	Ultrasonography of Peridiaphragm Structures for Evaluation of Foreign Body Syndrome in Marathwadi Buffaloes. Komulwar P.G., C.L. Badgujar, B.M. Gahlod, A.U. Bhikane, S. S. Pitlawar and A.D. Patil	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
16	USG of Thoracic and Peridiaphragm Structures in healthy Marathwadi Buffaloes. Komulwar P.G., C.L. Badgujar, B.M. Gahlod and S. S. Pitlawar	2017-18	42 nd Annual Congress of ISVS and National Symposium on “Advances in Diagnostic Imaging and Surgical Techniques in farm and Companion Animals”	Department of VSR, NAU, Navsari. 22-24, November, 2018.	National
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17	Surgical Management of Intussusception in a red Kandhari Bull under TIVA. N.A. Shaikh, S.S. Pitlawar, S.M. Agiwale, C.L. Badgujar and T.T. Kherkar. Pg-38.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
18	Surgical Management of Membraneous teat Obstruction in a Non Descript Cow by Theloresectoscopy. A.A. Ransingh, S.S. Pitlawar, P.E. Taksande, S.M. Agiwale, C.L. Badgujar, R. K. Ghatge and T.T. Kherkar. Pg-37.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
19	Surgical Management of lacerated Contaminated Wound in kathi wadi Filly under Triple intravenous Anaesthesia (TIVA). N. M. Abdul Kayum, S. S. Pitlawar, C. L. Badgujar and S. S. Borakhede. Pg-32.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
20	Surgical Correction of Atresia Ani Et Recti in a Calf. S. S. Borakhede, S. M. Agiwale, S. S. Pitlawar, N. M. Abdul Kayum and C. L. Badgujar. Pg-32.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
21	Successful Surgical management of Oblique Fracture of Distal Extremity of Humerus by Circlage Wire in Pomeranian Dog. N. M. Abdul Kayum, V. M. Salunke, S. S. Pitlawar, S. S. Borakhede and V. S. Kolekar. Pg-33.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National

22	Successful Management of Tibial Fracture by Simple Splint Bandage in Deoni Bull. S. S. Borakhede, S. S. Pitlawar, N. M. Abdul Kayum and C. L. Badgujar. Pg-33.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
23	Surgical Management of recurrent vaginal Prolapse with Cystocoele in Cow. Naina Singh, S. M. Agiwale, S. S. Pitlawar, C. L. Badgujar and A. U. Bhikane. Pg-34.	2018-19	3 rd Clinical Case Conference on “Diagnostic and Therapeutic Challenges in farm and Companion Animals”.	Department of Gynaecology and Obstetrics, PGIVAS, Akola on 23-01-2019.	National
Total					

Sr. No.	Title of the Book / Chapter / Articles/ Subject based publications	Book Title, page No., Editor and Publisher	Year	Whether First / co-author
1	Shwanchya Kanachi Niga	Shwan pradarshan va margadarshan shibir	2019	Co-author
2	Shwan prajananatil shanka va samadhan	Shwan pradarshan va margadarshan shibir	2019	Co-author
3	Shwanachya datanche ajar va niga	Shwan pradarshan va margadarshan shibir	2019	First author
4	Importance of vaccines to animal and human health	One day technical seminar on value of vaccination	2019	Co-author
5	Surgical management of obstructive urolithiasis by laparoscopic tube cystostomy	One day technical workshop under CVE	2022	Co-author
6	Laparoscopic guided diaphragmatic herniorrhaphy in buffaloes	One day technical workshop under CVE	2022	Co-author
7	Thoracoscopy in cattle for examination of thorax	Advances in livestock technology for betterment of livestock	2022	First author
8	Total intravenous anaesthesia in bovines	Advances in livestock technology for betterment of livestock	2022	First author

9	Total intravenous anaesthesia in bovines	Disease diagnosis and intravenous technique in bovine	2022	First author
10	Thoracoscopy in cattle for examination of thorax	Disease diagnosis and intravenous technique in bovine	2022	First author
11	Shwanamadhil latthapana sadhya drushtikshepat lapalayala pramukh dhoka	Shwan parikshan va pradarshan	2022	Co-author
12	Shwanchya Kanachi Niga	Shwan parikshan va pradarshan	2022	First author
13	Shwanchya datanche vikar va Niga	Shwan parikshan va pradarshan	2022	First author
14	Aajari janavar kase olkhave	Multipurpose Artificial Insemination Techniques in Rural India (MAITRI) 11 April, 2022 to 10 May, 2022	2022	Co-author
15	Janavaratil jakhama va jakhamanche prakar ani prathamik upchar		2022	First author
16	Valunche khacchikarn va mahattva		2022	First author
17	I love elephants and they love me: Vaidyanathan Krishnamutthy	Strengthening Veterinary resilience	2022	Co-author

6. Research Recommendations

S.N.	Title	Research Recommendation	Year
1	Intramedullary Interlocking Nailing for Long Bone Fractures In Small Ruminants (Goats and Sheep) and Calves	Intramedullary Interlocking Nailing is recommended for the treatment of mid shaft fracture of long bones in goats and calves.	2013-14
2	Evaluation of Ketamine-Guaifenesin and Isoflurane anesthesia for diaphragmatic herniorrhaphy in buffaloes	It is recommended to use double drip (50 mg/ml Guaifenesin and 2 mg/ml Ketamine in 500 ml of 5% dextrose solution) @ 1.5ml / kg body weight for induction and 2% isoflurane for maintenance of anaesthesia in buffaloes during diaphragmatic herniorrhaphy as it provides excellent anaesthesia	2019-20
3	Evaluation of port placement approaches for thoracoscopic examination in cattle	Telescope port placement at 30-35 cm ventral to transverse process of thoracic vertebra at 7th ICS is recommended for thoracoscopic examination in thoracic diseases of adult cattle.	2021-22
4	Evaluation of ketamine-guaifenesin and sevoflurane for maintenance of anesthesia during conventional and laparoscopy guided diaphragmatic herniorrhaphy in bovine	General anesthesia with double drip (500 mL) containing 5% dextrose, guaifenesin 50 mg/mL and ketamine 2.00 mg/mL @ 2.14 mL/kg/hr is recommended for diaphragmatic herniorrhaphy in buffaloes.	2021-22

5	Comparative evaluation of conventional and laparoscopic tube cystostomy in cattle calves	Laparoscopy assisted tube cystostomy is recommended over conventional tube cystostomy for calves suffering from obstructive urolithiasis with distended urinary bladder.	2021-22
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7. MOU signed by the Colleges

Sr. No.	MOUS Between	Date of signing	Place	Duration
	Party – I & Party - II			

8. Research Priorities / Thematic areas: Department Wise

- Large Animal Anaesthesia
- Large Animal Thoracic Surgeries
- Prevention of Foreign Body Syndrome in Large Ruminants
- Prioritization of Surgical Diagnostic Techniques in Large Ruminants
- Fracture Management in Small and Large Animals

9. Significant Research Achievement:

Sr. No.	Achievements	Description
1	Patents Awarded	
2	Breed Registration	
3	IPR	
4	Copyright	
5	Trademark	