

College of Veterinary and Animal Sciences, Udgir
Joint Animal Science Research Council (JASRC) Recommendations

Sr. No.	Details	Recommendation/Research Outcome
23rd Joint Animal Science Research Council Meet 2024-25		
1.	Project Title	Pathological Studies on Proventricular Disorders of Chickens.
	Investigators	S.G.Chavhan, R.C.Kulkarni, B.M. Kondre and S.P.Awandkar
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Pathology
	Recommendation	It is recommended that the tetrameriosis caused due to <i>Tetrameres fissipina</i> should be considered as one of the key differential diagnosis for mortality in young desi chickens having obstruction of proventricular lumen.
2.	Project Title	Effect of Dietary Herbal Anti-Stressors on Performance and Body Surface Temperature of Broilers.
	Investigators	V.V.Parage, R.C.Kulkarni, G.M.Gadegaonkar, M.Raziuddin, S.G. Chavhan and V.B. Dongre
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Poultry Science
	Recommendation	It is recommended that a dietary 0.1 % addition of each of Amla and Bhuiamla is better for growth, immunity, and profitability in broiler chickens.
3.	Project Title	Development of Pet Food Product from Chicken By-Products Enriched with Encapsulated Omega-3 Fatty Acids.
	Investigators	Thakre Sandip Ashroba and Mohammad Raziuddin
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Livestock Products Technology
	Recommendation	For development of pet food products with improved Omega-3 fatty acid it is recommended to incorporating whey protein concentrate encapsulated flax seed oil (10.5%).

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Sr. No.	Details	Recommendation/Research Outcome
22nd Joint Animal Science Research Council Meet 2023-24		
1.	Project Title	Anaesthetic Efficacy of Diazepam-Ketamine-Guaifenesin Combination to Relieve Esophageal Obstruction in Buffalo.
	Investigators	A.C.Ghodake, S.S.Pitlawar, R.V.Suryawanshi, S.A.Dhenge, S.G.Chavhan and P.M.Ghule
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	It is recommended that, obstructed esophageal foreign body can be dislodged into rumen using probang under the anaesthetic protocol of diazepam (@ 0.4 mg/kg BW I/V) and ketamine-guaifenesin combination (2 mg/mL ketamine and 50 mg/ml guaifenesin in D-5% 500 ml @ 1.5 ml/kg BW I/V) provide adequate muscle relaxation of oesophageal muscles. The dislodged foreign body into rumen can be removed by rumenotomy.
2.	Project Title	Etiology of Monsoon Mastitis.
	Investigators	S.P.Awandkar, P.S.Masare and M.B.Kulkarni
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Microbiology
	Recommendation	It is recommended to consider the possibility of involvement of unusual zoonotic yeast(s) like <i>Kodamaea ohmeri</i> in clinical mastitis cases not responding to antibiotics and suggested to perform antifungal susceptibility test before treatment of fungal origin mastitis.
3.	Project Title	Knowledge and Attitude of Milk Producers Towards Silage Making: An Interventional Study.
	Investigators	S.V.Sawandkar, N.V.Khode and S.R.Avhad
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary and Animal Husbandry Extension Education
	Recommendation	It is recommended that, extension functionaries should plan training using a combination of teaching methods which offer an opportunity to hear, read, watch and experience or practice silage making.

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Sr. No.	Details	Recommendation/Research Outcome
22nd Joint Animal Science Research Council Meet 2023-24		
4.	Project Title	Effect of Supplementation of Oregano Essential Oil on Performance of Broiler Chicken.
	Investigators	G.S.Gavhad, G.M.Gandegaonkar, M.M.Vaidya, R.C.Kulkarni, S.G.Chavhan, S.P.Awandkar and S.J.Komatwar
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Animal Nutrition
	Recommendation	It is recommended to supplement oregano essential oil @ 400 mg/kg of broiler feed for improved growth performance, gut health and profitable broiler production.

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21st Joint Animal Science Research Council Meet 2022-23																			
1.	Project Title	Effect of Dietary Addition of Betaine on Performance of Broilers Fed with Diets with Reduction in Methionine and Choline.																	
	Investigators	Ashish Kumar, R.C.Kulkarni, N.Z.Gaikwad, S.P.Awandkar, N.V.Khode and S.G.Chavhan																	
	Name of College	College of Veterinary and Animal Sciences, Udgir																	
	Department Name	Poultry Science																	
	Recommendation	It is recommended that 0.05% dietary level of betaine hydrochloride with 20% reduction in methionine and choline significantly improves growth performance, livability, immunity, and carcass traits of broiler chickens.																	
2.	Project Title	Phylogenetic Studies on Fowl Adenovirus Serotype 11																	
	Investigators	S.P. Awandakar, G.M.Waghule, V.G.Chavan, R.C.Kulkarni, S.G.Chavhan and M.B. Kulkarni																	
	Name of College	College of Veterinary and Animal Sciences, Udgir																	
	Department Name	Veterinary Microbiology																	
	Recommendation	It is recommended that, 1. Following primers are suitable for detection of Indian FAdV-11 by polymerase chain reaction.																	
	<table border="1"> <thead> <tr> <th colspan="2">Gene</th><th>Primer</th></tr> </thead> <tbody> <tr> <td rowspan="2">Hexon L3&4</td><td>F</td><td>5' GGGGCTGAAGTATCGCTCTC 3'</td></tr> <tr> <td>R</td><td>5' ATGGCTTACTTCCGTACGCC 3'</td></tr> <tr> <td rowspan="2">Fiber</td><td>F</td><td>5' CTCCTTTCGCGTTCTCCATG 3'</td></tr> <tr> <td>R</td><td>5' CAACCCAGGAACCGTTCAAG 3'</td></tr> <tr> <td rowspan="2">Penton</td><td>F</td><td>5' GGGGTTCCTCTTCCTCCTTC 3'</td></tr> <tr> <td>R</td><td>5' TGATAACCAACCCGCCGT 3'</td></tr> </tbody> </table>		Gene		Primer	Hexon L3&4	F	5' GGGGCTGAAGTATCGCTCTC 3'	R	5' ATGGCTTACTTCCGTACGCC 3'	Fiber	F	5' CTCCTTTCGCGTTCTCCATG 3'	R	5' CAACCCAGGAACCGTTCAAG 3'	Penton	F	5' GGGGTTCCTCTTCCTCCTTC 3'	R
Gene		Primer																	
Hexon L3&4	F	5' GGGGCTGAAGTATCGCTCTC 3'																	
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	R	5' CAACCCAGGAACCGTTCAAG 3'																	
Penton	F	5' GGGGTTCCTCTTCCTCCTTC 3'																	
	R	5' TGATAACCAACCCGCCGT 3'																	

2. Any of the hexon gene segment (nt 1551 to 2828), fiber gene (nt 14 to 1498) and penton gene (nt 122 to 1562) is suitable for classification of Fowl adenovirus strains into five species and twelve serotypes.

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Sr. No.	Details	Recommendation/Research Outcome
21st Joint Animal Science Research Council Meet 2022-23		
3.	Project Title	Molecular Phylodynamic Analysis of Canine Parvovirus from Maharashtra State.
	Investigators	S.P.Awandakar, R.D.Sadanande, N.V.Khode, S.S. Ghoke and M.B.Kulkarni
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Microbiology
	Recommendation	It is recommended that, CPV-2c strain may be incorporated in vaccine to control Canine parvovirus diarrhoea outbreaks in dogs.
4.	Project Title	Thoracoscopic Evaluation of Thoracic Structures and Organ in Medico-Surgical Affections in Bovine.
	Investigators	S.S.Pitlawar
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	Thoracoscopic examination in cattle is recommended for surgical management of hydrothorax by minimally invasive method and also helped to explore thoracic structures.
5.	Project Title	Radiological Evaluation for Potential Foreign Body Location in Thorax and its Surgical Management in Cattle.
	Investigators	G.B.Swami, S.S.Pitlawar, N.Z.Gaikwad, S.S.Ghoke, S.G.Chavhan and P.M.Ghule
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	It is recommended that, after obtaining two radiographs in right and left thoracic cavity, the presence of potential penetrating foreign body (PFB) is accurately located in the henithorax of cattle in which the shorter length of penetrating foreign body (PFB) is measured.

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Sr. No.	Details	Recommendation/Research Outcome
21st Joint Animal Science Research Council Meet 2022-23		
6.	Project Title	Optimization on Port Placement Approaches for Laparoscopy in Buffaloes.
	Investigators	Supreet Kumar, S.S.Pitlawar, P.S.Masare, A.D.Patil, S.G.Chavan and P.M.Ghule
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	It is recommended that, the central, dorso-caudal and dorso-cranial ports of the left flank and the central and dorso caudal ports of the right flank laparoscope approaches for the visualization of most of the abdominal organs in buffaloes.
20th Joint Animal Science Research Council Meet 2021-22		
1.	Project Title	Attitude of Field Veterinarians Towards Use of Antibiotic in Animal.
	Investigators	NV.Khode, S.R.Avhad and S.P.Awandkar
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary and Animal Husbandry Extension Education
	Recommendation	Considering field veterinarians' perceived constraints, antibiotic sensitivity testing facilities should be made easily available to select proper antibiotics under field conditions.
2.	Project Title	Clinico-Pathological Studies on Prevalence of Bovine Immune-Mediated Hemolytic Anemia (IMHA).
	Investigators	S.G.Chavhan, M.A.Khan, A.U.Bhikane and N.Z. Gaikwad
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Pathology
	Recommendation	The anemic cases of cattle/ buffaloes having hemoglobin levels less than 5 g/dL and not responding to any routine treatment are recommended to examine for Immune Mediated Hemolytic Anemia (IMHA) using Saline Agglutination Test (SAT).

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Sr. No.	Details	Recommendation/Research Outcome
20th Joint Animal Science Research Council Meet 2021-22		
3.	Project Title	Molecular Characterization of Field and Vaccine Strains of Infectious Bursal Disease Virus.
	Investigators	A.A.Agnihotri, S.P.Awandkar, M.B.Kulkarni, S.G.Chavhan, R.C.Kulkarni and V.G.Chavan
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Microbiology
	Recommendation	It is recommended to use, 1. N212D and E300A amino acid substitutions as a regional marker for identifying very virulent Infectious bursal disease virus isolates from Central India. 2. VP2 gene hypervariable nucleotide sequence from 584-1248 for correct genogrouping of Indian Infectious bursal disease virus isolates.
4.	Project Title	Evaluation of Port Placement Approaches for Thoracoscopic Examination in Cattle.
	Investigators	S.S.Borakhede, S.S.Pitlawar, C.L.Badgujar, K.S.Chaudhari, M.A.Khan and Kushwha Neelam
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	Telescope port placement at 30-35 cm ventral to transverse process of thoracic vertebra at 7 th ICS is recommended for thoracoscopic examination in thoracic diseases of adult cattle.
5.	Project Title	Evaluation of Ketamine-Guaifenesin and Sevoflurane for Maintenance of Anesthesia during Conventional and Laparoscopy Guided Diaphragmatic Herniorrhaphy in Bovine.
	Investigators	Abdul Khyum N.M., S.S.Pitlawar, C.L.Badgujar, S.M.Agivale and S.S.Ghoke
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	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.

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Sr. No.	Details	Recommendation/Research Outcome
20th Joint Animal Science Research Council Meet 2021-22		
6.	Project Title	Comparative Evaluation of Conventional and Laparoscopic Tube Cystostomy in Cattle Calves.
	Investigators	S.U.Rathod, S.S.Pitlawar, N.Z.Gaikwad, S.S. Ghoke and S.G.Chavhan
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	Laparoscopy assisted tube cystostomy is recommended over conventional tube cystostomy for calves suffering from obstructive urolithiasis with distended urinary bladder.
19th Joint Animal Science Research Council Meet 2021-22		
1.	Project Title	Clinicopathological Studies of Theileriosis in Goats.
	Investigators	S.G.Chavhan and P.S.Rathod
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Pathology
	Recommendation	The goats showing clinical signs such as presence of tick infestation, pale or papery white mucous membranes, fever, swollen lymph nodes and respiratory distress should be screened for theileriosis by blood and lymph node aspiration smear examination.
2.	Project Title	Therapeutic Management of Toxic Hepatitis in Buffaloes.
	Investigators	K.S.Kedar and A.U.Bhikane
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	Treatment protocol comprising Ceftriaxone + Tazobactam @ 10 mg/kg IV, SID to check secondary bacterial infection along with Dextrose 5% @ 25 ml/kg IV, Inj. Vitamin B complex @ 10 ml IM SID and Inj. Chlorpheniramine maleate @ 0.1 mg/kg IM SID in buffaloes with itching for 5–7 days and herbal laxative @ 450 ml twice daily for 2–3 days and herbal liver tonic @ 1 bolus P.O., BID for 20 days is recommended for the treatment of hepatic jaundice in buffaloes.

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Sr. No.	Details	Recommendation/Research Outcome
18th Joint Animal Science Research Council Meet 2019-20		
1.	Project Title	Blood Transfusion as an Adjunct Therapy in Severe Cases of Haemolytic Anaemia in Cattle.
	Investigators	N.D.Shah, A.U.Bhikane, R.K.Jadhav, S.G.Chavhan and Neelam Kushwaha
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	Whole blood transfusion therapy @ 1050 ml is recommended as an adjunct therapy in severe cases of haemolytic anaemia (Hb < 5 g/dl and PCV < 15%) due to haemoprotozoan infections in medium sized cattle (400 kg) for survival and rapid clinical improvement.
2.	Project Title	Evaluation of Ketamine-Guaifenesin and Isoflurane Anesthesia for Diaphragmatic Herniorrhaphy in Buffaloes.
	Investigators	T.T.Kherkar, S.S.Pitlawar, C.L.Badgujar, U.B.Kumbhar and R.K.Jadhav
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Surgery and Radiology
	Recommendation	It is recommended to use double drip (50 mg/ml Guaifenesin and 2 mg/ml Ketamine in 500 ml of 5% dextrose solution) @ 1.5 ml/kg body weight for induction and 2% isoflurane for maintenance of anaesthesia in buffaloes during diaphragmatic herniorrhaphy as it provides excellent anaesthesia.
3.	Project Title	Molecular Surveillance and Cross Species Transmission of Rotaviruses from Animal and Human Origin from Maharashtra.
	Investigators	S.P.Awandkar, R.D.Suryawanshi, M.B.Kulkarni, P.P.Bhosle and S.S.Deshmukh
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Microbiology
	Recommendation	It is recommended that the RNA-PAGE electropherogram patterns are suitable for initial confirmation of host species of human and bovine rota viruses.

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Sr. No.	Details	Recommendation/Research Outcome
17th Joint Animal Science Research Council Meet 2018-19		
1.	Project Title	Clinico-Diagnostic and Therapeutic Management of Indigestion in Colostrum Fed Buffaloes.
	Investigators	A.U.Bhikane, R.K.Jadhav, Neelam Kushwah, S.S.Ghoke and Anand Mohan
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	1. Treatment of buffaloes ailing with colostrum-induced indigestion with Inj. DNS @ 3 lit IVS every six hours on first day followed by 3 lit IV twice a day for 4–6 days, Inj. Dexamethasone @ 0.2 mg/kg IV once in severe clinical cases, Inj. Diazepam @ 0.15 mg/kg IV every six hours for 1–2 days in buffaloes with nervous signs, compound preparation of calcium, magnesium and phosphorous @ 300–450 ml slow IV once, Inj. Vitamin B complex @ 10 ml IM daily for 5–7 days, Inj. Chlorpheniramine maleate @ 0.25 mg/kg IM once a day for 3 days, laxative @ 450 ml PO daily for 3 days, pre and probiotics PO for 6–8 days and oral oxytetracycline @ 2 gm once a day for three days is recommended. 2. Colostrum feeding to adult buffaloes is unscientific practice and hence steps should be taken towards increasing awareness among farmers about ill effects of colostrum feeding in adult buffaloes.
16th Joint Animal Science Research Council Meet 2017-18		
1.	Project Title	Diagnostic and Therapeutic Aspects of Hepatic Jaundice in Cattle.
	Investigators	H.A.Shaikh and A.U.Bhikane
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	Treatment of hepatic jaundice in cattle with Dextrose 5 percent @ 25 ml/kg in two divided doses IV for 10 to 15 days or till recovery, Vitamin B Complex @ 10 ml IM for 15 to 20 days, Dexamethasone @ 40 mg, 30 mg, 20 mg IM on 1st, 2nd and 3rd day, Chlorpheniramine maleate @ 0.25 mg/kg body weight for 5–7 days in cases showing itching, herbal liver tonic @ 10 tab P.O. BID for 20–30 days, laxative 450 ml P.O. for 3–5 days and Amoxycillin + Cloxacillin @ 10 mg/kg IV for 7–10 days is recommended.

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Sr. No.	Details	Recommendation/Research Outcome
16th Joint Animal Science Research Council Meet 2017-18		
2.	Project Title	Prevalence and Clinico-Therapeutic Management of Theileriosis in Buffaloes.
	Investigators	A.A.Bhosale and A.U.Bhikane
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	Theileriosis is prevalent in buffalo population of Latur and Nanded districts of Marathwada region, hence buffaloes exhibiting fever, enlargement of superficial lymph nodes, pale mucous membranes, low to moderate reduction in haemoglobin (< 9 g/dl) and no response to antibiotic treatment should be suspected and screened for theileriosis.
2.	Project Title	Epidemiology, Diagnosis and Therapeutic Management of Snake Bite in Buffaloes.
	Investigators	A.U.Bhikane, R.K.Jadhav, P.S.Masare and S.S.Ghoke
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	1. Ascending swelling on limbs or asymmetrical swelling on face with or without bleeding signs is suggestive of haemotoxic snake bite in buffaloes. 2. For haemotoxic snakebite, platelet count and blood clotting time should be used for assessment of severity and monitoring recovery of haemotoxic snakebite. Treatment protocol comprising polyvalent anti-snake venom (PASVS) @ 20 ml IV initially followed by 10–20 ml within first 24 hrs depending upon severity of signs, Amoxycillin–cloxacillin @ 10 mg/kg IV/IM for 7–9 days, Dexamethasone @ 80 mg IV on first day, 40 mg on 2nd & 3rd day and 20 mg on 4th & 5th day in non-pregnant animals, Meloxicam @ 0.5 mg/kg IV/IM daily for 5–9 days in pregnant animals and from 6th day onwards for 4 days in non-pregnant animals, Dextrose 5% @ 4–6 L IV for 5 days, Furosemide @ 1–1.5 mg/kg IV/IM and Carbazochrome salicylate @ 10 ml IM daily for 3–5 days, and Vitamin B-complex @ 5–10 ml IM for 5–6 days and iron bolus @ 1 PO BID for 10 days from 5th day onwards in anaemic buffaloes is recommended for treatment of haemotoxic snakebite.

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Sr. No.	Details	Recommendation/Research Outcome
15th Joint Animal Science Research Council Meet 2016-17		
1.	Project Title	Evaluation of Various Therapeutic Protocols for the Treatment of Osteomalacia in Buffaloes.
	Investigators	A.S.Jadhav and A.U.Bhikane
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	1. Osteomalacia in buffaloes can be tentatively diagnosed and differentiated from TRP on the basis of normal body temperature accompanied by progressive stiff gait, arching of back and kneeling and can be further confirmed by radiological examination. 2. Administration of 50 ml buffered phosphorus preparation intravenously for first two days followed by intravenous administration of 25 ml of same preparation for next days and subsequent administration of 50 gm mineral mixture BID orally till recovery is effective and economical method of treatment of Osteomalacia in buffaloes.
13th and 14th Joint Animal Science Research Council Meet 2014-15 and 2015-16		
1.	Project Title	Utilization of Tamarind Pulp (<i>Tamarindus indica L.</i>) as Feed Supplement in Broiler Chicken.
	Project No.	COVAS/Udgir/AN/04/2014-15
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Animal Nutrition
	Recommendation	Supplementation of 250 g dry tamarind pulp powder per 100 kg broiler poultry feed is effective in achieving better FCR, reduced cost of production and reduced cholesterol levels in serum and meat of broiler chicken.

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Sr. No.	Details	Recommendation/Research Outcome
13th and 14th Joint Animal Science Research Council Meet 2014-15 and 2015-16		
2.	Project Title	Epidemiological and Clinico-Therapeutic Aspects of Black Quarter in Cattle.
	Project No.	COVAS/Udgir/VCMEJ/02/2014-15
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	To reduce the case fatality rate in black quarter, treatment with Amoxicillin-cloxacillin @ 20 mg/kg body weight IV/IM and locally for first 3 days followed by IV/IM daily for next 5–8 days with intensive fluids (Dextrose 5% & RL @ 100 ml/kg IV) and Dexamethasone @ 0.5–1 mg/kg IV in the initial phase (first 24 hrs) and rigorous dressing of sloughed area in third phase of recovery (17 days to 3–4 months) is recommended.
3.	Project Title	Epidemiology, Diagnosis and Therapeutic Management of Snake Bite in Cattle.
	Project No.	COVAS/Udgir/VCMEJ/03/2014-15
	Name of College	College of Veterinary and Animal Sciences, Udgir
	Department Name	Veterinary Clinical Medicine, Ethics and Jurisprudence
	Recommendation	1. Ascending swelling on limbs or asymmetrical swelling on face with or without bleeding should be considered as characteristic sign of snake bite in cattle irrespective of presence or absence of fang marks. 2. Blood clotting time and platelet count should be estimated for diagnosis, assessing severity of snake bite and monitoring recovery under field conditions. 3. Following treatment protocol is recommended for effective management of snake envenomation. Polyvalent anti-snake venom (PASVS) @ 20 ml IV initially followed by 10–20 ml within first 24 hrs depending upon severity of signs: • Amoxycillin-cloxacillin @ 10 mg/kg IV/IM for 5–9 days • Meloxicam @ 0.5 mg/kg IV/IM daily for 5–9 days • Dextrose 5% @ 4 L IV for 5 days • Dexamethasone IV (only in non-pregnant animals) ○ First day @ 80 mg

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		○ Second and third day @ 40 mg, and ○ Fourth and fifth day @ 20 mg • Furosemide @ 0.75–1 mg/kg IV/IM for 3–5 days • Carbazochrome salicylate @ 10 ml IM daily for 3–5 days • Iron and B-complex preparations @ 5 ml each for 6 days from 4th–5th day onwards.