



DEPARTMENT OF VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY



College of Veterinary Science & Animal Husbandry
Navsari Centre (Kamdhenu University), Gandhinagar

Eru Char Rasta, Vijalpore, Ta: Jalalpore, Dist. Navsari - 396450

Teaching Faculty in Department

Sr. No.	Name	Designation	Contact Details	Joining Year in NAU	Qualification	Total Experience	Publications Research Papers
1	Dr. C.V. Savalia	Professor and Head	9427856293 cvsavalia1@kamdhenuuni.edu.in	2010	Ph.D.	33 years	40
2	Dr. R. Kumar	Assistant Professor	9723902456 rajeevkumar2@kamdhenuuni.edu.in	2013	Ph.D.	09 Years	25
3	Dr. Deepthi N. Nayak	Veterinary Officer	9099068324deeptinayak3@kamdhenuuni.edu.in	2015	Ph.D.	05 Years	05

ABOUT THE DEPARTMENT

Veterinary Public Health comprises of all the community efforts applied for prevention of diseases, protection of life and enhancing efficiency and well being of man. The pathogens of majority of human diseases have their reservoir in animals, hence prevention and control of human illness can best be practiced by controlling such conditions in animals. Veterinary Public health abridges activities of human medicine and veterinary medicine in making man healthy and elevating their standard of living.

The department of Veterinary Public Health and Epidemiology was started under establishment of Vanbandhu Veterinary College phase II programme (Year2010-11) with the recruitment of professor and laboratory technician one each, in June and April 2010, respectively.

The department imparts undergraduate teaching as per the MSVE guidelines notified by Veterinary Council of India, which covers courses on Milk & Meat hygiene, Food safety & Public Health, Veterinary Epidemiology & Zoonoses as well Environmental hygiene.

Postgraduate teaching in the subject of veterinary public health is also started from 2010-11 as per the ICAR norms for P.G.Studies in the Veterinary Sciences.

The Department is well equipped with all the instruments required for undergraduate and post graduate teaching as well as post graduate thesis research.

B) RESEARCH:

1. AGRESCO research project:

a. Ongoing Research: Experiment No: VPHE-1/2019 under Budget Head: 12404

Sr. No.	Title	Principle Investigator and Co-PIs
1	Molecular detection of <i>Nocardia</i> species in bovine raw milk and oral lavage of immunocompromised human cases.	Dr. R. Kumar Dr. C. V. Savalia Dr. I. H. Kalyani

b. Completed Research: Experiment No: VPHE-1/2015 under Budget Head: 12404.

Sr. No.	Title	Principle Investigator and Co-PIs
1	Detection of Classical Enterotoxigenic coagulase positive <i>Staphylococcus aureus</i> in bovine raw milk, dairy food products and Handlers' hand swabs.	Dr. R. Kumar Dr. C. V. Savalia Dr. I. H. Kalyani Dr. K. K. Sharma Dr. U. V. Ramani

2. POST GRADUATE RESEARCH:

THESIS SUBMITTED FOR POST GRADUATE DEGREE

Sr. No.	Title	Name of student	Degree/Year	Major Guide
1	Isolation, Identification, Molecular characterization and Human Health Significance of <i>Escherichia coli</i> from Fresh water Fish	Mr. Bhavesh I. Prajapati {Reg.No:04-0723-2010}	M.V.Sc. 2012	Dr. C. V. Savalia
2	Study On The Occurrence of some Metal residues of Public Health Concern in Fish (<i>Asian Seabass</i>).	Mr. Rajesh N. Gelani {Reg. No:04- 0712-2010}	M.V.Sc. 2012	Dr. C. V. Savalia

3	Studies on The Prevalence and Molecular characterization of <i>Listeria</i> Spp. isolated from Foods of Animal Origin.	Ms. Deepti N. Nayak {Reg. No: 04-1128-2011}	Ph. D. 2014	Dr. C. V. Savalia
4	Sero-Epidemiology and Molecular Studies of Leptospirosis in Livestock and Human in Navsari District of South Gujarat.	Mr. Deepak P. Kshirsagar {Reg. No: 04-1193-2012}	Ph. D. 2015	Dr. C. V. Savalia
5	Studies on Occurrence of <i>Staphylococcus aureus</i> in milk of Surti goats.	Mr. Sagar A. Patel {Reg. No. 2040414017}	M.V.Sc. 2016	Dr. C. V. Savalia
6	Study on Incidence of <i>Vibrio parahaemolyticus</i> in Shrimp.	Mr. Rekhenkumar K. Patel {Reg. No. 2040415011}	M.V.Sc. 2017	Dr. C. V. Savalia
7	Isolation, identification and molecular characterisation of <i>Bacillus cereus</i> in raw chicken meat.	Mr. Alpeshkumar P. Suthar {Reg. No. 2040416015}	M.V.Sc. 2018	Dr. R. Kumar
8	Determination of Fluroquinolones , Gentamicin and Tetracycline resistance pattern and residual effect against selected milk borne microorganisms from bovine raw milk.	Mr. Nishantkumar M. Patel {Reg. No. 2040417014}	M.V.Sc. 2019	Dr. R. Kumar

THRUST AREA OF RESEARCH:

- Bacterial food safety and risk assessment
- Zoonotic disease infection of local community interest
- Milk, Meat and Sea food of local interest

RESEARCH RECOMMENDATIONS: 2 (TWO)

N	Recommendation for Farmer's community/Animal owners:
o.	Experiment No: VPHE-1/2015: Detection of Classical Enterotoxigenic coagulase positive <i>Staphylococcus aureus</i> in bovine raw milk, dairy food products and Handlers' hand swabs.
1	<p>Gujarati:</p> <p>ગાયઅનેભેંસનાકાચાદૂધ, દૂધનીબનાવટોઅનેદૂધનીહેરફેરકરતામાણસોનાહાથદ્વારાબહુવિધએન્ટીબાયોટિક્સપ્રતિરોધકતા ધરાવતાંસ્ટેફાઇલોકોકસઓરીયસજીવાણુનુંસંભવિતજોખમપોતાનેતેમજઉપભોક્તાનેરહેછે. તેથીદૂધનીહેરફેરતથાદૂધનીબનાવટોબનાવવાનાવિવિધસ્તરેસ્વચ્છતાજાળવણીમાટે પશુપાલકોને ભલામણ કરવામાં આવે છે.</p> <p>English:</p>

	Bovine raw milk, dairy products and handler's hand can serve as possible risk of multiple antibiotic resistant <i>Staphylococcus aureus</i> to handlers and the consumers warranting maintenance of hygiene during milk collection, handling and processing.
2	Recommendation for Scientific community: Bovine raw milk and dairy products contained 3.0×10^4 - 4.8×10^7 CFU/ml (gm) coagulase positive <i>Staphylococcus aureus</i> is widely prevalent in the handlers hand. Milk, its products and handlers hand serve as possible source of health hazards of methicillin resistant <i>Staphylococcus aureus</i> and staphylococcal enterotoxins.

PUBLICATIONS OF THE DEPARTMENT :

1	R. Kumar and C. V. Savalia (2020). Effect of different stress conditions on antibiotic susceptibility of coagulase positive thermo tolerant <i>Staphylococcus aureus</i> . <i>Octa Journal of Biosciences</i> . 8(2): 62-72.
2	N.M. Patel, R. Kumar, C.V. Savalia, D.N. Desai and I.H. Kalyani (2020). Dietary exposure and risk assessment of antibiotics residues in marketed bovine raw milk. <i>Journal of Entomology and Zoology Studies</i> . 8(4): 1823-1827.
3	D. N. Nayak, R. Kumar and C. V. Savalia (2020). The Socio-economic Impacts of the COVID-19 Pandemic: A Review. <i>International Journal of Current Microbiology and Applied Sciences</i> . 9(11): 562-566.
4	N. N. Deepti, J. B. Solanki, C. V. Savalia and Pushpa Makwana (2020). Bacteriological Evaluation of Locally Marketed Ice Cream in Navsari City of Gujarat. <i>International Journal of Current Microbiology and Applied Sciences</i> . 9(12): 2236-2240.
5	A.P. Suthar, R. Kumar, C.V. Savalia, N.M. Patel and I.H. Kalyani (2019). Toxigenic Profiling of Enterotoxin-Producing <i>Bacillus cereus</i> Isolated from Marketed Raw Chicken Meat and Human Subjects by Triplex and Multiplex PCR. <i>Journal of Animal Research</i> . 9(6): 821-829.
6	N. M. Patel, R. Kumar, A. P. Suthar, C. V. Savalia, D. N. Desai and I. H. Kalyani (2019). Resistant Pattern of Therapeutics Antimicrobial Challenged on <i>Pseudomonas aeruginosa</i> Bacterium Isolated from Marketed Raw Buffalo Milk. <i>European Journal of Nutrition & Food Safety</i> . 9(4): 398-407.
7	A.P. Suthar, R. Kumar, C. V. Savalia, N. K. Patel and R. K. Patel (2018). Determination of Microbiological quality and detection of Thermotolerant fecal <i>E. coli</i> in ready to use water from Navsari city of South Gujarat. <i>International Research Journal of Public Health</i> . 2(17): 01-08.
8	R. K. Patel, R. Kumar, C. V. Savalia and N. G. Patel (2018). Isolation of <i>Staphylococcus aureus</i> from Raw Cattle Milk and Their Drug Resistance Pattern. <i>International Journal of Current Microbiology and Applied Sciences</i> . 7(02): 836-840.
9	R. K. Patel, C. V. Savalia, R. Kumar, A. P. Suthar, S. A. Patel, N. G. Patel, I. H. Kalyani and S. Gupta (2018). Determination of <i>Vibrio parahaemolyticus</i> from Retail Shrimp of South Gujarat of Navsari District and Their Drug Resistance Pattern. <i>International Journal of Current Microbiology and Applied Sciences</i> , 7(02): 2704-2710.
10	R. K. Patel, C. V. Savalia, R. Kumar, I. H. Kalyani, S. Gupta and A. P. Suthar (2018). Isolation, Identification and Molecular Characterization of <i>Vibrio parahaemolyticus</i> from Shrimp Samples from South Gujarat of Navsari District. <i>Journal of Animal Research</i> , 7 (6): 01-06.
11	S. A. Patel, C.V. Savalia, R. Kumar, M. A. Gamit, S. Nair, R. K. Patel and N. G. Patel (2017). Incidence of Methicillin Resistant <i>Staphylococcus aureus</i> in the Milk of Surti Goats. <i>International Journal of Agriculture Sciences</i> . 9(2): 3637-3639.

12	S. A. Patel, C.V. Savalia, R. Kumar, R. K. Patel, N. G. Patel, M. A. Gamit, S. Nair (2016). Studies on Some External Sources of <i>Staphylococcus aureus</i> in Surti Goat Milk. <i>Advances in Life Sciences</i> . 5(18): 7441-7443.
13	R. Kumar, S. P Singh and C.V. Savalia (2015). Overview of Emerging Zoonoses in India: Areas of Concern. <i>Journal of Tropical Diseases</i> . 3(3): 165 http://dx.doi.org/10.4172/2329-891X.1000165 .
14	D.N. Nayak, C.V. Savalia, D.P. Kshirsagar and R. Kumar (2015). Isolation, identification and molecular characterization of <i>Listeria</i> species from milk and milk products in Navsari city of South Gujarat. <i>Journal of Veterinary Public Health</i> . 13(1): 19-23.
15	D. N. Nayak, C. V. Savalia, I. H. Kalyani, R. Kumar and D. P. Kshirsagar (2015). Isolation, identification, and characterization of <i>Listeria</i> spp. From various animal origin foods. <i>Veterinary World</i> . 8(1): 695-701.
16	D. P. Krirsagar, C. V. Savalia, I. H. Kalyani, R. Kumar and D. N. Nayak (2013). Disease alert and forecasting of zoonotic diseases: An overview. <i>Veterinary World</i> , 6(11).889.
17	Swati Gupta and C. V. Savalia (2012) Application of biotechnology to improve livestock products. <i>Veterinary World</i> .5(10): 634-638.

Courses offered by the Department (Theory and Practical)

Undergraduate Programme

Sr. No.	Name of Course	Credit
1	UNIT: 1 VETERINARY PUBLIC HEALTH AND FOOD SAFETY	3+1
2	UNIT-2 VETERINARY EPIDEMIOLOGY	
3	UNIT-3 ZOO NOTIC DISEASES	
4	UNIT-4 ENVIRONMENTAL HYGIENE	

Master Degree Programme

Sr. No.	CODE	COURSE TITLE	CREDITS
1.	VPH 601	ELEMENTS OF VETERINARY PUBLIC HEALTH	1+1
2.	VPH 602	BACTERIAL AND RICKETTSIAL AGENTS OF PUBLIC HEALTH SIGNIFICANCE	2+1
3.	VPH 603	VIRAL, FUNGAL AND PARASITIC AGENTS OF PUBLIC HEALTH SIGNIFICANCE	2+1
4.	VPH 604	ZOO NOSES AND PUBLIC HEALTH	2+1
5.	VPH 605	PRINCIPLES OF FOOD HYGIENE AND SAFETY	2+1
6.	VPH 606	FOOD BORNE INFECTIONS AND INTOXICATIONS	2+1
7.	VPH 607	MEAT AND MILK HYGIENE	2+1
8.	VPH 608	ENVIRONMENTAL POLLUTION AND SAFETY	3+1
9.	VPH 609	FISH, FISH PRODUCTS AND SEAFOOD HYGIENE	1+1
10.	VPH 610	BIOTERRORISM AND DISASTER MANAGEMENT	1+1
11.	VPH 691	MASTER'S SEMINAR	1+0
12.	VPH 699	MASTER'S RESEARCH	20

Ph.D. Programme

Sr. No.	CODE	COURSE TITLE	CREDITS
1.	VPH 701	CURRENT TOPICS IN VETERINARY PUBLIC HEALTH	2+1
2.	VPH 702	EMERGING AND REEMERGING ZOOZOSES	2+1
3.	VPH 703	QUALITY CONTROL OF ANIMAL FOOD PRODUCTS	2+1
4.	VPH 704	OCCUPATIONAL HEALTH HAZARDS	2+1
5.	VPH 705	DISPOSAL AND RECYCLING OF WASTE	2+1
6.	VPH 706	BIOHAZARDS, BIOSECURITY AND DISASTER MANAGEMENT	2+0
7.	VPH 707	FOOD PLANT SANITATION	2+1
8.	VPH 708	ADVANCES IN ENVIRONMENTAL POLLUTION CONTROL	2+1
9.	VPH 790	SPECIAL PROBLEM	0+2
10.	VPH 791	DOCTORAL SEMINAR I	1+0
11.	VPH 792	DOCTORAL SEMINAR II	1+0
12.	VPH 799	DOCTORAL RESEARCH	45

SUPPORTING STAFF:

Sr.No.	Name	Designation	Qualification
1.	Ms. Bhavini R. Patel	Laboratory Assistant	B.Sc., DMLT
2.	Mr. Maheshbhai J. Ahir	Agriculture Assistant	Agri. Diploma

:: CONTACT US ::

Professor & Head

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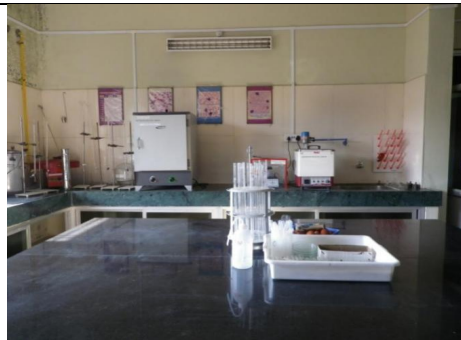
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POST GRADUATE RESEARCH LABORATORY



UNDER GRADUATE LABORATORY