

Patrak- A

Name of Department: Department of Veterinary Pharmacology and Toxicology

Faculty Profile:

Name	Designation	E-Mail	Phone No.	Joining Year	Qualification	Experience	No. of Publications
Dr. S. K. Bhavsar	Professor and Head	skbhavsar@kamdhenuuni.edu.in	09825768508	2017	Ph.D.	30 Years	150
Dr. K. A. Sadariya	Assistant Professor	kasadariya@kamdhenuuni.edu.in	09427180817	2012	Ph.D.	9 Years	79
Dr. V. N. Sarvaiya	Assistant Professor	vaidehisarvaiya@kamdhenuuni.edu.in	09427892672	2016 (SKNagar) 2022 (Anand)	Ph.D.	5.5 years	27

Name of Department: Department of Veterinary Pharmacology and Toxicology

About the Department (Profile):

Veterinary Pharmacology and Toxicology is considering as bridge between basic and clinical veterinary science. Pharmacology and toxicology are translational sciences. Pharmacology translates fundamental insights into drug action and fate into clinical therapy. Toxicology translates and transfer knowledge from fundamental science into practical application to safe guard animal health, human health and environment. The Department of Veterinary Pharmacology and Toxicology came in existence in 1965 during the second year of inception of the College of Veterinary Science and Animal Husbandry, Anand. The department progressed steadily giving thrust on quality education and Research. The department has nurtured post-graduate and doctoral students who have attained higher positions by becoming teachers, scientists and entrepreneurs in India and abroad. The department was pioneer to conduct research on Indigenous medicinal plants, Pharmacokinetics of drugs and Toxicology of pesticides for benefit of animals. The name and fame of the department today owes to following stalwarts who dedicated their life for the development of Veterinary Pharmacology and Toxicology discipline.

Sr. No.	Name of Head of the Department	Period	
		From	To
1.	Dr. J. V. Anjaria	01/06/1964	31/12/1984
2.	Dr. M. R. Dave	01/01/1985	31/07/1986
3.	Dr. J. K. Malik	01/08/1986	30/09/1995
4.	Dr. M. P. Verma	01/10/1995	31/03/2001
5.	Dr. P. R. Patel	01/04/2001	06/06/2003
6.	Dr. A. M. Thaker	07/06/2003	14/10/2015
7.	Dr. S. K. Raval	15/10/2015	05/10/2017
8.	Dr. S. K. Bhavsar	06/10/2017	Till date

Research Area:

- Pharmacokinetics \ Pharmacodynamics
- Ethno-pharmacology
- Toxicology / Toxicokinetics
- Pharmacogenomics/ Toxicogenomics
- Preclinical toxicity and safety studies

Research Projects:

A. Research Projects Completed

Sr. No.	Title	Duration	Funding Agency	Budget Amount	PI/ Co-PI
1.	Toxicological studies of some fungicides	During 1981	National Rayon Corporation, Mumbai	-----	Professor & Head
2	Network Project on Ethno-veterinary Medicine under AP cess fund	2006 – 2008	ICAR	24.82 lakh	PI : Dr. A. M. Thaker CO- PI: Dr. D. S. Nauriyal Dr. J. G. Sarvaiya Dr. D. J. Ghodasara Dr. S. K. Bhavsar
3	Outreach Programme on Ethno-veterinary Medicine	2009-2012	ICAR	80.00 lakh	PI : Dr. A. M. Thaker CO- PI: Dr. D. S. Nauriyal Dr. D. B. Patil Dr. D. J. Ghodasara Dr. S. K. Bhavsar
4	Evaluation of Efficacy of Homeopathic Formulation in Clinical/ Subclinical Mastitis in Cattle	2017-2018	Other Agency	1.30 Lakh	PI : Dr. S. K. Bhavsar CO- PI: Dr. S. K. Raval Dr. S. V. Shah Dr. B. B. Bhandari

B. Research Projects on-going

Sr. No.	Title	Start Date (period)	Agency	Budget Amount	PI/ Co-PI
1.	Animal Research related to investigation of Medicinal plant/weeds and genetic variation in Livestock (Non-plan).	1980	University funded	-----	Professor & Head
2	Outreach Programme on Ethno-veterinary Medicine	2012 to till date	ICAR	58.40 lakh	PI: Dr. A. M. Thaker (2012 - June 2013) Dr. S. K. Raval (July 2013- March 2020) Dr. S. K. Bhavsar (April-2020 to till date) CO- PI: Dr. S. K. Raval Dr. P.V. Parikh Dr. D. J. Ghodasara Dr. K. A. Sadariya

Achievements:

1. **"Vice Chancellor's Gold Medal Award" (2008)** - Dr. K.A. Sadariya
2. **Awards of Merit Certificate (2008)** - Dr. K.A. Sadariya
3. **"Prof. J.P. Trivedi Award (2012)"** - Dr. S.K. Bhavsar
4. **"Best Poster Presentation Award" (2013)** - K.A. Sadariya, S.D. Patel, J.B. Patel, S.K. Bhavsar and A.M. Thaker
5. **"Best Gujarati Article Award" (2014)** - Dr. Kamlesh Sadariya, Dr. Shailesh Bhavsar and Dr. Ghanshyam Mandali
6. **"Best Poster Presentation Award (2016)-** Sarvaiya, V. N.; Sadariya, K. A.; Ghodasara, D. J. and Thaker, A. M.
7. **"GAAS Award-2016"** for Best Ph.D. Thesis research work - Dr. K.A. sadariya
8. **Fellow of Indian Society of Veterinary Pharmacology and Toxicology (FISVPT)"** - Dr. A.M.Thaker and Dr. S.K.Bhavsar
9. **"Best Teacher Award - 2017"** - Dr. K.A. Sadariya
10. **Oral Paper Presentation Award- 2018 (Second position)** - Kapuriya P.B., Sadariya K.A., Bhavsar S.K., Patel Bhavisha R. and Thaker A.M.
11. **Oral Paper Presentation Award- 2018 (First position)** - Maradiya J.J., Patel Bhavisha R., Sadariya K. A., Bhavsar S.K. and Thaker A. M.
12. **Oral Paper Presentation Award-2018 (First position)** - Maradiya J.J., Gohel R.H., Sadariya K. A., Bhavsar S.K., Patel Bhavisha R. and Thaker A.M.
13. **Poster Presentation Award-2018 (Second position)-** Sarvaiya Vaidehi N., Sadariya K.A. and Thaker A.M.
14. **Oral Paper Presentation Award- 2019 (First prize)-** B.R. Humbal, J.A. Prajapati, K.A. Sadariya, S.K. Bhavsar and A.M. Thaker
15. **Oral Presentation Award- 2019 (First prize)-** Prajapati, J.A., Humbal, B.R., Sadariya, K.A., Bhavsar, S.K. and Thaker, A.M.
16. **Head Quarter** of "Indian Society of Veterinary Pharmacology and Toxicology (ISVPT)". Currently Dr. A.M.Thaker is acting as President and Dr. S.K. Bhavsar as Secretary Finance of the society.

List of Research Publications (2019 Onwards):

- 1 Humbal B.R., Sadariya K.A., Prajapati J.A., Bhavsar S.K. and Thaker A.M. (2019). Safety evaluation of *Syzygium aromaticum* oil in male and female wistar rats. *Journal of Pharmacognosy and Phytochemistry*, 8(4): 3027-3032.
- 2 Prajapati J.A., Humbal B.R., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2019). Experimental evaluation of anti-inflammatory activity of *Cinnamomum zeylanicum* oil in male wistar rats. *Journal of Pharmacognosy and Phytochemistry*, 8(4): 2483-2486.
- 3 Humbal B.R., Sadariya K.A., Prajapati J.A., Bhavsar S.K. and Thaker A.M. (2019). Evaluation of *in-vivo* anti-inflammatory activity of *Syzygium aromaticum* oil in male wistar rats. *The Pharma Innovation Journal*, 8(7): 540-543.
- 4 Prajapati J.A., Humbal B.R., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2019). Determination of in-vivo anti-inflammatory potential of *Cinnamomum zeylanicum* oil in female wistar rats. *The Pharma Innovation Journal*, 8(7): 544-547.
- 5 Humbal B.R., Sadariya K.A., Prajapati J.A., Bhavsar S.K. and Thaker A.M. (2019). Anti-inflammatory activity of *Syzygium aromaticum* (L.) Merrill & Perry oil in

- carrageenan-induced paw edema in female rats. *Annals of phytomedicine*, 8(2): 167-171.
- 6 Prajapati J.A., Humbal B.R., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2019). Safety assessment of *Cinnamomum zeylanicum* oil in male and female wistar rats. *Annals of phytomedicine*, 8(2): 172-178.
 - 7 Patel J.H., Vihol P.D., Sadariya K.A., Patel U.D., Varia R.D., Bhavsar S.K., Thaker, A.M. and Raval J.K. (2019). Pretreatment with trikatu augments pharmacokinetic profile and bioavailability of orally administered levofloxacin in goat. *Annals of phytomedicine*, 8(1): 172-177.
 - 8 Modi F.D., Bhavsar S.K., Patel J.H., Varia R.D., Modi L.C., Modi Megha and Kale N. (2019). Pharmacokinetic profile of rutin after intramuscular administration in rats favours its *in vivo* antiinflammatory activity in carrageenan-induced rodent model of inflammation. *Annals of phytomedicine*, 8(1): 185-192.
 - 9 Patel U.D., Bhavsar S.K., Thaker A.M., Patel S.D., Singh R.D. and Patel J.H. (2019). Pharmacokinetics of levofloxacin after oral administration in normal and ketoprofen-treated sheep. *The Pharma Innovation Journal*, 8(6): 729-733.
 - 10 Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2019). Evaluation of antiurolithic activity of ethanolic extract of *Tribulus terrestris* in wistar rats. *Journal of Veterinary Pharmacology and Toxicology*, 18(1): 38-43.
 - 11 Patel U.D., Thaker A.M. and Bhavsar S.K. (2019). Disposition of orally administered levofloxacin in Lipopolysaccharide induced febrile model of sheep. *Journal of Veterinary Pharmacology and Toxicology*, 18(1): 22-25.
 - 12 Maradiya J.J., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2019). Safety evaluation of repeated oral administration of gemifloxacin and piperine in layer birds. *Journal of Veterinary Pharmacology and Toxicology*, 18(2): 81-84
 - 13 Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2020). Antiurolithic potential of *Tribulus terrestris* on ethanolic extract in ethylene glycol induced urolithiasis in rats. *Journal of Veterinary Pharmacology and Toxicology*, 18(1): 38-43.
 - 14 Patel S.G., Raval S.K., Dhama A.J. and Bhavsar S.K. (2020). Prophylactic effect of biherbal extract of *Boerhavia diffusa* and *Tribulus terrestris* in wistar rats against adenine induced chronic kidney disease: haemato-biochemical profile. *The Indian Journal of Veterinary Sciences and Biotechnology*, 16(2,3&4): 58-61.
 - 15 Varia R.D., Patel J.H., Modi F.D., Vihol P.D. and Bhavsar S.K. (2020). *In vitro* and *in vivo* antibacterial and anti-inflammatory properties of linalool. *International Journal of Current Microbiology and Applied Sciences*, 9(9): 1481-1489.
 - 16 Varia R.D., Patel J.H., Modi F.D., Vihol P.D. and Bhavsar, S.K. (2021). *In-vitro* and *in-vivo* antibacterial and anti-inflammatory effect of catechin including pharmacokinetic profile in rat. *Annals of Phytomedicine*, 10(2): 472-478.
 - 17 Parmar J.K., Goswami B.G., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2021). Evaluation of immunomodulatory activities of clove oil in broiler. *Journal of Veterinary Pharmacology and Toxicology*, 20(1): 18-26.
 - 18 Baria T.R., Humbal B.R., Sadariya K.A., Patel B.R. and Bhavsar S.K. (2021). Assessment of *in vitro* antibacterial activity and MIC of thyme oil against gram positive

and gram negative bacteria. *Journal of Veterinary Pharmacology and Toxicology*, 20(1): 37-41.

- 19 Goswami B.G., Parmar J.K., Sadariya K.A. and Bhavsar S.K. (2021). Evaluation of cinnamon oil as antibiotic growth promoter substitutions on growth performance in broiler. *Journal of Veterinary Pharmacology and Toxicology*, 20(2): 38-45.
- 20 Bhavsar S.K., Humbal B.R., Sadariya K.A. and Baria T.R. (2022). Evaluation of the *in vitro* antibacterial activity and minimum inhibitory concentration of *Curcuma longa* L., *Ocimum sanctum* L. and *Piper nigrum* L. ethanolic and aqueous extracts. *Annals of phytomedicine*, 11(1): 455-464.
- 21 Sarvaiya V.N., Sadariya K.A., Bhavsar S.K., Thaker A.M. and Pathan M.M. (2022). Effects of multiple intramuscular administrations of cefpirome and flunixin meglumine on hemato-biochemical parameters in sheep. *The Pharma Innovation Journal*, 11(8S): 527-530.
- 22 Sarvaiya V.N., Sadariya K.A., Bhavsar S.K. and Thaker A.M. (2022). Plasma pharmacokinetics and dosage regimen of cefpirome sulfate in ewes. *Veterinarski Arhiv*, 92(4): 411-420.

Media Gallery
Photo Gallery:



Under-Graduate Students making Pharmacy Preparations



Post-Graduate Students working in laboratories



Organization of ISVPT-2018 conference



Visitors

Contact Us:

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