Brief Biodata

Name	:	Dr Naimi Chand
Designation	:	Principal Scientist
Discipline	:	Veterinary Medicine
Email	:	n_chand75@rediffmail.com
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Education qualification *(Graduation on wards)*

Degree	Subject	Institute
BVSc & AH	Veterinary Science and Animal Husbandry	GBPUA&T, Pantnagar
MVSc	Veterinary Medicine	IVRI, Izatnagar
Ph D	Veterinary Medicine	IVRI, Izatnagar
PGDMM	Marketing Management	IGNOU, New Delhi

Area of research

- My area of research interest includes mineral deficiency diseases, gastrointestinal diseases, production diseases and mastitis in ruminants and heavy metal pollution and semen biology in cattle.
- Developed methodology for induction of clinical zinc deficiency in goats and devised biochemical marker for early diagnosis of zinc deficiency in animals and evaluated effective therapeutic measures for zinc deficient animals.
- Developed colostrum feeding schedule for new born calves to minimize the incidence of colibacillotic diarrhea and evaluated parenteral and oral fluid therapies for treatment of metabolic acidosis in diarrheic calves.
- Studied prevalence of subclinical ketosis in crossbred cattle at organized farms in Punjab and evaluated allopathic and herbal therapies for management of subclinical ketosis.
- Evaluated homeopathic treatment consisting Kalium Iodatum, Sulphur and Calendula as alternative treatment for clinical management of FMD in cattle.
- Increased levels of Pb and Cd were detected in blood, milk and hair samples of cattle reared around industrial effluent contaminated area which were found to be associated with altered hepatic and renal function and trace mineral profile of cattle.
- Evaluated Vitamin E and Se as antioxidant for improvement of semen quality in Frieswal breeding bulls.
- Studied antibiogram of bacteria isolated from frozen semen of Frieswal bulls and evaluated antibiotic combination for control of bacterial load and improvement of semen quality

Fellowships/Awards etc.

1. ISVM Appreciation Award (2002) for outstanding contribution to Indian Society for Veterinary Medicine.
2. Best Clinical Article Award (2009) of Indian Society for Veterinary Medicine for paper published in Indian Journal of Veterinary Medicine
3. Best Oral Presentation Awards (2011, 2012, 2013, 2017) in Annual convention and National Symposium of Indian Society for Veterinary Medicine.
4. Intas Best Paper Award (2013) for the article “Abducent nerve palsy in a buffalo (*Bubalus bubalis*)” published in Intas Polivet vol.13(1):52-53.
5. Reviewer Excellence award(2016) by ARCC for acting as potential reviewer for the ARCC journals

Selected Publications :

1. **N. Chand** and N.N. Pandey (2003). Clinico-biochemical profile of induced primary zinc deficiency in goats. *Indian Journal of Animal Sciences*. 73(7): 736-39.

2**. N. Chand**, N.N. Pandey and A.K. Verma (2005). Therapeutic efficacy of oral zinc sulphate with and without parenteral vitamin A in induced zinc deficiency in goats. *Indian Journal of Animal Sciences*. 75(3): 274-75.

3. **N. Chand,** N.N. Pandey and D.B. Mondal (2009). Effect of timing and frequency of colostrum feeding on immunoglobulinG status and susceptibility to colibacillotic diarrhoea in neonatal calves. *Indian Journal of Animal Sciences*. 79(7):653-657.

4. **N. Chand,** AS Sirohi, S Tyagi, A. Sharma, Suresh Kumar and T. V. Raja (2017). Comparative therapeutic efficacy of homeopathic and allopathic treatment against Foot and Mouth Disease in Cattle. *Indian Journal of Animal Research* 52 (6): 898-902.

5. **N. Chand**, S. Tyagi, R. Prasad, D. Dutta, A. S. Sirohi A. Sharma and R. Tyagi (2018) Status of toxic heavy metals in seminal plasma and their effect on oxidative markers and semen quality parameters in HF crossbred breed bulls. *Indian Journal of Animal Sciences* 89(6): 632–636

6. **N. Chand**, Harkirat Singh and Ashwani Kumar (2016) Successful therapeutic management of Pigeon (*Columba livia domestica*) malaria with Chloroquine. *Indian Journal of Animal Research*; 52(2): 326-327

7. **N Chand**, M Pande, S Tyagi A S Sirohi, S Mahajan, S Kumar, Sarika and A Sharma (2022) Antibiogram of microorganisms isolated from fresh and frozen semen of crossbred Frieswal bulls. *CryoLetters* 43 (6), 322 – 327.

8. **N. Chand**, S. Tyagi, A.S. Sirohi, N.V. Patil, A. Sharma and Sarika (2021) Effect of vitamin E and Selenium supplementation on oxidative markers and semen quality parameters in breeding bulls. *Indian Journal of Animal Sciences* 91 (10): 826–829

9. S. Hussain , R. Alex , R. R. Alyethodi, S Sharma, N. Verma, AS Sirohi, U Singh, S. Kumar, **N. Chand**, GS Sengar, A Sharma, R Tyagi, S Arya and S Tyagi (2021). Development of a RAPD marker-based classification criterion for quality semen production in Holstein crossbred bulls. *Reproduction in Domestic Animals*. 21;56:736–743

10. M Pande, S Tyagi, S Kumar, Y K Soni, **N Chand**, AS Sirohi, Sarika, I Devi and S Mahajan (2022). Effects of unconjugated gold, silver and titanium dioxide nanoparticles on bovine spermatozoa at various stages of cryopreservation. *CryoLetters* 43(3), 150 – 157

11. M Pande, S. K. Ghosh, S. Tyagi, R. Katiyar, S. Kumar, N. Srivastava, A. S. Sirohi, Sarika, **N. Chand**, S. K. Dhara, S. K. Bhure, and S. Mahajan (2024) Novel Antioxidant Humanin Analogue Restores Bull Semen Cryosurvivability. *Andrologia* Volume 2024(3): 1-14.

12. M. Pande, S. Kumar, S. Tyagi, A. S. Sirohi, **N. Chand**, Y. K. Soni, S. Mahajan, S. Saha, A. Sharma, Sarika, J. S. Rajoriya, Anjali, A. K. Mohanty (2024) Endogenous Tissue Inhibitor of Metalloproteinase-2 Levels Are Associated With High-Quality Neat Semen but Unrelated to Sperm Cryoresistance in Bulls. *Reproduction in Domestic Animals*, 2024; 59:e14741