

Deepak Sharma

DVM, MSc, CertIV TAE, PhD candidate

School of Biomedical Sciences, UNSW

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Six years of teaching experience to medical and paramedical students
Undertaken teachers' training for medical education
Undertaken Certificate IV in training and assessment
MSc in Basic and Medical Physiology, Certificate of Merit
Doctor in Veterinary Medicine (BVSc & AH), Certificate of Merit
Original research articles in international refereed journals-20
Review article in peer-reviewed journals: 3
Poster presentation at national and international meetings: 7
Awards for academic excellence, conference travel grants and professional excellence

Academic Qualifications

10/2019 - Present: PhD Scholar (Final term, notice for intention to submit thesis submitted)

Department of physiology

School of Biomedical Sciences, University of New South Wales

Neuroscience Research Australia (NeuRA)

4/2018 - 12/2018: Certificate IV in Training and Assessment (TAE), from CBD college Sydney, Australia

8/2010 -11/2013: Master of science in Basic and Medical Physiology (Human Physiology)

Certificate of Merit, 80.00% (Top of the batch)

BP Koirala Institute of Health Sciences, Dharan, Nepal

<http://www.bpkihs.edu/>

Thesis: Investigation on the relationship between somatic peripheral and autonomic nervous system in human subjects.

8/2004 -9 /2009: Doctor in Veterinary Medicine (BVSc & AH), a 5-year course plus internship

Institute of Agriculture and Animal Sciences (IAAS), Tribhuvan University, Nepal

<http://www.iaas.edu.np/>

Certificate of Merit, 82.04%

Internship and research: (research topic: Level of aflatoxin in marketed milk packets in three districts of Nepal)

Certificate of Merit: students scoring a minimum aggregate of 75% on total marks in the annual examinations in the first attempt and being on the 90th percentile and above are awarded certificate of merit

Professional Experience

- October 2022 – Present: Associate Lecturer, Department of Physiology, UNSW
- October 2018 - Present: University Casual Academic, Department of Physiology, UNSW
- August 2018 - September 2019: Associate Professor/Senior Lecturer
 - Department of Physiology and Biophysics, Karnali Academy of Health Sciences, Nepal
 - <http://www.kahs.edu.np/>
 - Established the department and the physiology teaching labs at Karnali Academy of Health Sciences.
- August 2013 - July 2018: Assistant Professor /Lecturer
 - Department of Physiology, Chitwan Medical College, Tribhuvan University, Nepal
 - Email: info@cmc.edu.np, website: www.cmc.edu.np
 - Major responsibilities:
 - Preparing and delivering lectures, conducting tutorials, seminars, problem-based sessions, and laboratory sessions to medical and paramedical students.
 - The production of exam questions/papers, exam marking and moderation etc.
 - Designing and developing teaching-learning resources

Relevant Teaching Trainings

- 7 Sept. 2014 to 12 Sept. 2014: Faculty development workshop on the theme “Embracing Innovations for Enhancing Students’ Learning” organized by Health Professional Education and Research Center (HPERC), Chitwan Medical College.
- 1 Sept 2016 to 7 Sep 2016: Teacher’s training on Problem Based learning organized by Health Professional Education and Research Center (HPERC), Chitwan Medical College.
- April 2018 – Dec 2018: Certificate IV in Training and Assessment (TAE), from CBD college Sydney, Australia

Teaching at UNSW

List of courses taught in various capacities (demonstrations, PBL and SG facilitations, tutoring, marking)

- PHSL3221 - Endocrine, Reproductive & Development
- MFAC1526 - Ageing & Endings B
- NEUR3101 - Muscle and Motor Control
- PHSL2101/2121/2501 - Physiology 1A
- PHSL3211 - Cardiovascular Physiology and Pathophysiology

- NEUR3121 - Molecular and Cellular Neuroscience
- PHS2201/2221/2502 - Physiology 1B

Honours and Awards

- A recipient of a 2022 Trainee Professional Development Award (TPDA), society for Neuroscience (SfN), USA.
- Best teacher award, Basic medical science stream, Chitwan Medical College, Tribhuvan University, Nepal, 2016
- SoMS Paper of the Month Award August 2022 winner
- A recipient of the Development and Research Training Grant, GRS, UNSW
- A recipient of SoMS Postgraduate Student Conferences and/or Short Courses grant
- University International Postgraduate Award (UIPA), UNSW, Australia, 2019 (letter attached)
- School of Medical Sciences (SOMS) Top-Up Scholarship, UNSW, 2019 – Awarded to recognize the best PhD applicant
- NeuRA Sydney Top-up scholarship for PhD
- Adelaide Scholarship International for post graduate study, University of Adelaide, 2019, Australia. I prefer UNSW to Adelaide, considering my PhD project.
- Travel grant to attend and present in XII ISMM World congress on Mountain Medicine, 21-24 Nov 2018, Kathmandu, Nepal
- *Awarded Nova Scotia Graduate Entrance Doctoral scholarship, Canada, 2016.
- *Awarded MEXT Fellowship (for PhD), Japanese Government Scholarship, Japan 2016.
- Certificate of Merit in post graduate degree (M.Sc. in Basic and Medical Physiology), BP Koirala Institute of Health Sciences, Nepal.
- IBRO-APRC-ISN Travel Grant Award to attend and present a paper in 25th ISN-APSN Joint Biennial Meeting in Cairns, Australia.
- International Union of Physiological Sciences (IUPS) travel grant to attend and present a paper in 37th congress of IUPS, Birmingham, UK.
- Full Nepal government scholarship for M.Sc. in Basic and Medical Physiology at BP Koirala Institute of Health Sciences, Dharan, Nepal.
- Full Nepal government scholarship for “Doctor in veterinary medicine (DVM)” at Institute of Agriculture and Animal Sciences (IAAS), Tribhuvan University, Rampur, Chitwan, Nepal.
- Certificate of Merit in DVM, Institute of Agriculture and Animal Sciences (IAAS), Tribhuvan University, Nepal.
- Best poster award in PG category on 19th scientific session organized by BPKIHS, Nepal; Feb 2-4, 2012
- * Was unable to commence because of unavoidable circumstances

2022

Sharma D, Ng KKW, Birznieks I, Vickery RM. Perceived tactile intensity at a fixed primary afferent spike rate varies with the temporal pattern of spikes. *J Neurophysiol*. 2022.

Sharma D, Ng KKW, Birznieks I, Vickery RM. The burst gap is a peripheral temporal code for pitch perception that is shared across audition and touch. *Scientific Reports*. 2022;12(1):11014.

Sharma D, Ng KKW, Birznieks I, Vickery RM. Auditory clicks elicit equivalent temporal frequency perception to tactile pulses: A cross-modal psychophysical study. *Front Neurosci*. 2022;16:1006185.

2020

Sharma D, Panta PP, Amgain K. An Epidemiological Study of Injuries in Karnali, Nepal. *J Emerg Trauma Shock*. 2020;13(1):30-34. doi:10.4103/JETS.JETS_14_192018

Sharma D, Amgain K, Panta, PP *et al*. Hemoglobin levels and anemia evaluation among pregnant women in the remote and rural high lands of mid-western Nepal: a hospital-based study. *BMC Pregnancy Childbirth* 20, 182 (2020). <https://doi.org/10.1186/s12884-020-02870-7>

2019

Sharma D, Amgain K, Panta PP. Profile and outcome of medical emergencies in a tertiary care hospital of remote and rural region of western Nepal. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*. 2019 April; 18(4): 11-17. DOI: 10.9790/0853-1804161117

Amgain K, Adhikari S, Neupane S, Panta P, **Sharma D**, Paudel T, Neupane P, Sanjel S. A cadaveric study on morphometry and variation of subclavian artery: a cross-sectional study. *JKAHS [Internet]*. 4Jun.2019 Available from: <http://jkahs.org.np/jkahs/index.php/jkahs/article/view/59>

Lama N, Lamichhane R, Bhandari R, C S, Bhandari G, **Sharma D**, et al. Factors Influencing Dietary Diversity of Pregnant Women Attending Antenatal Care in Western Regional Hospital, Nepal: A Cross-sectional Study. 2019:189-96.

2018

Timilsina S, Karki S, Gautam A, Bhusal P, Paudel G, **Sharma D**. Correlation between maternal and umbilical cord blood in pregnant women of Pokhara Valley: a cross sectional study. *BMC Pregnancy Childbirth*. 2018 Mar 21; 18(1):70. doi: 10.1186/s12884-018-1697-1. (Impact factor 2.331)

Panta PP, Phuyal S, **Sharma D**, Amgain K. Factors Affecting Uterine Prolapse among Females of 20-35 years on Semi-urban Area of Kathmandu District. *Journal of Karnali Academy of Health Sciences*. 2018;1(3):14-9.

2017

Sharma D, Paudel BH, Khadka R, et al. Nerve conduction studies in lower limb of elite Nepalese football players: an insight into neural adaptations. *J Sports Med Phys Fitness*. 2017;57(3):313-318. doi:10.23736/S0022-4707.16.05941-7

Bhusal P, Timilsina S, **Sharma D**. Effect of 30 minutes brisk walking on hemoglobin concentration and leukocyte count. *Int J Health Sci Res*. 2017; 7(11):70-73.

Yadav PK, Yadav RL, **Sharma D**, Shah DK, Thakur D, Limbu N, Islam MN. Nerve Conduction Study on Sural Nerve among Nepalese Tailors Using Mechanical Sewing Machine. *Journal of Clinical and Diagnostic Research*. 2017 Mar; 11(3): CC05-CC09. DOI: 10.7860/JCDR/2017/22814.9399 (I have major contributions: data acquisition, analysis and interpretation, manuscript writing, and revising - result and discussion sections) (cite Score 2017: 0.82)

Yadav PK, Yadav RL, **Sharma D**, Shah DK, Sapkota NK, Thakur D, Limbu N, Islam MN. Vibration upshot of operating mechanical sewing machine: an insight into common peroneal nerve conduction study. *Ann Occup Environ Med*. 2017; 29:8. DOI: [10.1186/s40557-017-0164-1](https://doi.org/10.1186/s40557-017-0164-1) (BioMed Central journal, I have major contributions: Analysis and interpretation of data, manuscript draft preparation, and revision - Results and discussion sections) (Citation Impact: 0.686 – Source Normalized Impact per paper)

2016

Yadav RL, Khadka R, Agrawal K, Thakur D, **Sharma D**, Shah DK, Yadav PK, Sapkota NK, Paudel BH, Islam MN. Analysis of cardiac autonomic modulation in normotensive obese and eutrophic adults of Nepal. *Int J Res Med Sci*. 2016 Jan; 4(1): 105-110. DOI: <http://dx.doi.org/10.18203/2320-6012.ijrms20160013> (contributed in acquisition and analyses of HRV data, manuscript writing, and revising - introduction and result sections)

Yadav RL, **Sharma D**, Yadav PK, Shah DK, Agrawal K, Khadka R, Islam MN. Somatic neural alterations in non-diabetic obesity: A cross-sectional study. *BMC Obesity*. 2016; 3:50. DOI: 10.1186/s40608-016-0131-3. (I have major contributions: conception and design, analysis and interpretation of data, writing and revising the manuscript critically - introduction, methods and results sections)

Deo Sk, Paudel BH, Khadka R, Limbu N, **Sharma D**. Effect of changes in mood on exertional dyspnea in healthy subjects. *International journal of Biomedical Research*. 2016; 7(7): 457-462. DOI: <https://doi.org/10.7439/ijbr.v7i7.3381> (Contributed in recording and interpreting HRV, and revising article critically) (General Impact Factor: 0.7039)

Shah DK, Yadav RL, **Sharma D**, Yadav PK, Sapkota NK, Jha RK, Islam MN. Learning approach among health sciences students in a medical college in Nepal: a cross-sectional study. *Advances in Medical Education and Practice*. 2016 March; 7: 137-143. DOI: <http://dx.doi.org/10.2147/AMEP.S100968> (I have major contributions: conception and design, data analysis, manuscript writing, and revising -introduction, research method and result sections) (Dove Press journal)

2015

Sharma D, Paudel BH, Khadka R, Thakur D, Sapkota NK, Shah DK, Deo S, Islam MN. Time domain and frequency domain analysis of heart rate variability in elite Nepalese football players. *International Journal of Biomedical Research*. 2015; 6(9): 641-646. DOI: <http://dx.doi.org/10.7439/ijbr.v6i9.2413> (General Impact Factor: 0.7039)

Shah DK, Khadka R, Yadav RL, Sapkota NK, **Sharma D**, Yadav PK. Cetrizine induced drowsiness: electroencephalographic concomitants. *Int J Med Res Health Sci*. 2015; 4(4): 832-836. DOI: 10.5958/2319-5886.2015.00165.4 (Contributed in recording and analyzing EEG, manuscript writing and revising- introduction, method, and result sections) (Impact factor: 0.52)

Sapkota NK, **Sharma D**, Shah DK. Protective role of bilirubin against the atherosclerosis in metabolic syndrome. *European journal of pharmaceutical and medical research*. 2015; 2(4):129-136. Available on: http://www.ejpmr.com/home/abstract_id/187

Yadav PK, Sapkota NK, Shah DK, **Sharma D**, Yadav RM, Islam MN. Oxytocin: how does it affect social behavior? *European journal of pharmaceutical and medical research*. 2015; 2(5): 1716-1726. Available on: https://www.ejpmr.com/home/abstract_id/454

2013

Rana G, kafle D, Adhikari P, Sharma A, **Sharma D**. The Global problem: obesity & dyslipidemia. *Int Res J Pharm App Sci*. 2013; 3(5): 69-73. Available on: [https://www.irjpas.com/view_content.php?quat=3&date=Volume-3:Issue-5%20\(Sep-Oct,%202013\)&issue=5](https://www.irjpas.com/view_content.php?quat=3&date=Volume-3:Issue-5%20(Sep-Oct,%202013)&issue=5)

2012

As a contributor of a chapter: *cardiac Autonomic function test and heart rate variability in a book entitled Neurophysiology an application notes*; published by department of basic and clinical physiology, BP Koirala Institute of Health Sciences, Dharan, Nepal. Feb 2012.

Presentations at scientific meetings (international)

- **Sharma D***, Khadka R, Thakur D, Paudel BH. Do somatic neural adaptations occur in lower limb of elite football players? Poster presented at 25th ISN-APSN Joint Biennial Meeting; 2015 August 23-27, Cairns, Australia.
- **Sharma D***, Paudel BH, Thakur D, Khadka R. Nerve Conduction and Short-term heart rate variability in Football Players. Poster presented at 37th Congress of International Union of Physiological Sciences (IUPS); 2013 July 21 - 26, Birmingham, UK.

- **Sharma D***, Ng KKW, Birznieks I, Vickery RM. Perceived tactile intensity at a fixed primary afferent spike rate varies with the temporal pattern of spikes. Virtual oral presentation at Neuroscience 2022; November 12-16, San Diego, USA.
- Khadka R, Paudel BH, Majhi S, Shrestha N, Regmi MC, **Sharma D** et al. Yogic practices can increase estrogen and progesterone levels and heart rate variability in peri-menopausal women. In: Proceedings of The Physiological Society, 37th congress of IUPS; 2013 July 21 - 26, Birmingham, UK.
- Deo S, **Sharma D** & Khadka R. The Effect of Affective Pictures on Heart Rate Variability. In: Proceedings of The Physiological Society, 37th congress of IUPS; 2013 July 21 - 26, Birmingham, UK.

Membership of Learned Societies

- Society for Neuroscience, USA
- Australasian Neuroscience society, Australia
- South Asian Association of Physiologists (SAAP)
- Nepal Physiological Society

Referees

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