Parastou Kordestani-Moghadam

Assistant Professor of Cognitive Neuroscience

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Current Position

Manager of Research Development and Evaluation, Research and Technology Deputy, Lorestan University of Medical Sciences (LUMS), Khorramabad, Iran.

Education

1. Phd of Cognitive Neuroscience, Institute for cognitive science studies, Tehran, Iran
2011-2017
Thesis: “ Investigating the effect of models of napping on fear conditioning memory with regard to mGlu-R5 receptor, Glu-T1 and α- ketoglutarate dehydrogenase changes in right and left amygdale induced in sleep deprivation in male rat”. Supervised by Prof. M.R.Zarrindast and Dr. M.Nasehi.
Thesis Rank: Excellent
2. Master of Medical –Surgical Nursing, Faculty of Nursing– Midwifery, Tehran University of Medical Sciences, Tehran, Iran, 1997-2000
Thesis: “The Effect of breathing exercise on post thoracotomy atelectasis”.
Thesis Rank: Excellent
3. Bachelor of Nursing, Faculty of Nursing-Midwifery Khorramabad,Lorestan University of Medical Sciences, Khoramabad, IRAN, 1992-1996

Employment

1995-1997: Clinical nurse in Icu and Thoracic Surgery Departments. Khorramabad, Iran
1997-1999: Clinical nurse in Emergency and Thoracic Surgery Departments. Khorramabad, Iran
1999-2000: Clinical nurse in Neurology and Neurosurgery Departments. Khorramabad, Iran
2000-Present: Faculty Member in Nursing and Midwifery, Critical Care and Emergency Department. LUMS (Lorestan University of Medical Sciences). Khorramabad, Iran

Teaching Activities

- Neurocritical Care
- Diagnostic Evaluation
- Multi organ Dysfunction
- Monitoring of Nervous system in ICU
- Pathophysiology and Nursing Care Plan in Neurological disease
- Pathophysiology and Nursing care of Medical-Surgical Disease:
- Nervous system

 Endocrinology
 Respiratory disease
 Critical care Nursing
 Health assessment & Physical Examination
 ABG Interpretation and Pulmonary Embolism
 Airway Management and O2 Therapy

Publications

1. A review of cognitive disorders in attention deficit hyperactivity disorder with emphasis on executive functions and brain structures. S Roshannia, S Maleki-Karamolah, Z Akhlaghi, P Kordestani-Moghadam. International Clinical Neuroscience Journal 8 (2), 60-66, 2021
2. Proof of concept of novel visuo-spatial-motor fall prevention training for old people H Koppelaar, P Kordestani-Moghadam, S Kouhkani, F Irandoust, Gijs Segers, Lonneke de Haas, Thijmen Bantje, Martin van Warmerdam. Geriatrics 6 (3), 66, 2021
3. Inhibition of GSK_3β by Iridoid Glycosides of Snowberry (Symphoricarpos albus) Effective in the Treatment of Alzheimer's Disease Using Computational Drug Design Methods. M Eskandarzadeh, P Kordestani-Moghadam, S Pourmand, JK Fard, Bijan Almassian, Sajjad Gharaghani. Frontiers in Chemistry 9, 07 October 2021, doi: 10.3389/fchem.2021.709932
4. The study of relationship between nutritional behaviors and metabolic indices: A systematic review. Sarah Nouriyengejeh, Bahare Seyedhoseini, Parastou Kordestani-Moghadam, Ata Pourabbasi. Advanced Biomedical Research, Volume 9, 2020
5. Cognitive Impairments and Associated Structural Brain Changes in Metabolic Syndrome and Implications of Neurocognitive Intervention. Parastou Kordestani-Moghadam, Shervin Assari, Sarah Nouriyengejeh, Fatemeh Mohammadipour, Ata Pourabbasi. J Obes Metab Syndr. 2020 Sep 30; 29(3): 174–179. Published online 2020 Aug 4. doi: 10.7570/jomes20021
6. The role of sleep disturbances in depressive-like behavior with emphasis on α-ketoglutarate dehydrogenase activity in rats. Parastou Kordestani-Moghadam, Mohammad Nasehi, Salar Vaseghi, Fariba Khodagholi, Mohammad-Reza Zarrindast. Physiology & Behavior. Volume 224, 1 October 2020, 113023
7. Do COVID-19-Related Social Quarantine and Risk Perception Result in Persistent Behaviors Due to Changes in Human Brain Structures? Ata Pourabbasi, Parastou Kordestani Moghadam, and Sepideh Nikfarjam. Int J High Risk Behav Addict. 2020 September; 9(3):e104946. Published online 2020 July 6; doi: 10.5812/ijhrba.104946
8. Translation and psychometric properties of the Persian version of the position on nursing diagnosis scale. Tayebeh Ramezanian, Fatemeh Mohammadipour, Rasool Mohammadi, Parastou Kordestani-Moghaddam. Nursing Open. 2021;8:1615–1624; DOI: 10.1002/nop2.782
9. Vulnerability of Left Amygdala to Total Sleep Deprivation and Reversed Circadian Rhythm in Molecular Level: Glut1 As A Metabolic Biomarker. Parastou Kordestani Moghadam[a], Mohamad Nasehi, Fariba Khodagholic, Mohamad Reza Zarrindast. Galen Medical Journal (GMJ).
10. The fluctuations of metabotropic glutamate receptor subtype 5 (mGluR5) in the amygdala in fear conditioning model of male Wistar rats following sleep deprivation, reverse circadian and napping. Parastou Kordestani Moghadam, Mohamad Nasehi, Fariba Khodagholi, Salar Vaseghi, Mohamad Reza Zarrindast, Mojgan Khani. Brain Research.Volume 1734, 1 May 2020, 146739
11. The effect of informational-emotional support program on illness perceptions and emotional

coping of cancer patients undergoing chemotherapy. Masoumeh Pourfallahi & Mohammad Gholami & Mohammad Javad Tarrahi & Tahereh Toulabi& Parastou Kordestani Moghadam. Supportive Care in Cancer https://doi.org/10.1007/s00520-019-04842-w

12. Iranian Nursing Students' Experiences of Case-Based Learning: A Qualitative Study. Mohammad Gholami, Mandana Sak, Tahereh ToulabI, Parastou Kordestani-Moghadam, Amir Hossein Hossein Pour, Reza Dostizadeh. Journal of Professional Nursing. Articles in Press DOI: http://dx.doi.org/10.1016/j.profnurs.2016.08.013

13. When does the Brain Ask for Help from the Eyes? Parastou Kordestani-Moghadam, Henk Koppelaar, Sareh Kouhkani, Gijs Segers. J Phys Med Rehabil. 2020 Volume 2, Issue

14. Intermediating the Effect of Inter-Stimuli Interval in Repetition Suppression of Face Images among Adults with High and Low Levels of Autistic-Like Traits. Somayeh Maleki-Karamolah, Ahmad Sohrabi, Parastou Kordestani-Moghadam. Frontiers in Biomedical Technologies. 2019 DOI: https://doi.org/10.18502/fbt.v6i2.1688

15. Comparing the Effects of Problem-Based Learning and the Traditional Lecture Method on Critical Thinking Skills and Metacognitive Awareness in Nursing Students in a Critical Care Nursing Course. Mohammad Gholami, Parastou Kordestani-Moghadam, Fatemeh Mohammadipoor, Tarahi Mohammad Javad, Saki Mandana Amir Hossein Hossein Pour. Journal of Nursing Education and Practice, 2016-02-27

16. Influence of Intrapleural Infusion of Marcaine on Post Thoracotomy Pain.Hamid Reza Kadkhodaie, Parastoo Kordestani, Tanaffos (2007) 6(1), 47-51

17. Relationship Between FEV1 and 25-hydroxy Vitamin D in Patients with Chronic Obstructive Pulmonary Disease. A.R. Azargoon, P.K. Moghadam, S. Shokrollahi, F. Ebrahimzadeh and Y. Pournia. Trends in Medical Research, 2012 6: 184-190.

18. Appropriateness and Applicability of the Patient Bill of Rights from the Viewpoint of Nurses in Lorestan University of Medical Sciences: Barriers and Operational Solutions. Toulabi T, Kordestani-Moghadam P, Pournia Y. The Greek E-Journal of Perioperative Medicine, 2016; 14(a): 25-35 (ISSN 1109-6888) www. e-journal.gr

19. Comparison of Obsessive Compulsive Disorder and Coping Stress Status in Mothers of Disabled and Mothers of Normal Children. Seyedeh Zahra Alibakhshi1, Parastou Kordestani-Moghadam , Marziyeh Mashalpoor , Zahra Ebadi4 , Sara Mousavi. Health Education and Health Promotion (HEHP). 2017 Vol. 5 (2)

8. Abstracts:

1. Parastou Kordestani Moghadam, Fatemeh Mohammadipoor. Comparison of assessment methods with chest X-ray for postthoracotomy atelectasis. European Respiratory Journal, 2011 38: p1327

2. P. Kordestani Moghadam, P. Mirzavand, F. Manteghi. Tympanic temperature matches the brain temperature, fact or fiction? Journal of the Neurological Sciences, October 2013:333:e243. DOI: 10.1016/j.jns.2013.07.945

Effect of Sleep . Zarrindast R.M, Khodagholi F. , Nasehi , M.Moghadam-Kordestani P. .3 deprivation on emotional memory consolidation and α-ketoglutarate dehydrogenase in right and left Amygdala in Male rat. Abstract e-Book of BCNC, Dec 2016

4. The effect of thiamin on level of consciousness in patients with severe traumatic brain injury. Zeraati mohammadreza,Kordestani-moghadam parastou, Jamshidi Mohammadreza. Abstract e-Book of BCNC, Dec 2017.

Lectures

1. Parastou Kordestani-Moghadam. Neuropsychological Assessment, Mini Workshop of Neuropsychology, Tehran, Iran, BCNC 2016

2. Parastou Kordestani-Moghadam. Sleep & Emotional Brain Processing. Institute for Cognitive Science Studies (ICSS). Tehran, IRAN, 2013

3. Parastou Kordestani-Moghadam. Fundamental of neuroscience in Sleep & Emotion. 1th Memory Clinics in Iran (MCI). Tehran University of Medical Science, Tehran, IRAN, Jan 2018

International Congress :

1. The 16th world congress of European Federation of neurological Society (EFNS), Stockholm, Sweden, Sep 2012 . Tympanic Temperature in a patient with a Massive Epidural Hematoma. Poster Presentation
2. European Respiratory Society (ERS) 2011 Annual Congress. Amsterdam, Netherland. Sep 2011. Comparison of Chest X Ray with other Assessment Methods for Post thoracotomy Atelectasis. Poster Presentation (Eclectic Poster)
3. World Congress of Neurology (WCN), Vienna, Austria, Sep 2013. Tympanic temperature matches the brain temperature, fact or fiction? Poster Presentation
4. 5th Basic and Clinical Neuroscience Congress (BCNC), Dec 2016. Effect of Sleep deprivation on emotional memory consolidation and α-ketoglutarate dehydrogenase in right and left Amygdala in Male rat. Oral Presentation
5. 6th Basic and Clinical Neuroscience Congress (BCNC), Dec 2017. The effect of thiamine on level of consciousness in patients with severe traumatic brain injury. Zeraati mohammadreza1,Kordestani moghadam parastou,Jamshidi Mohammadreza. Poster Presentation
6. Annual Meeting of Canadian Society for Brain Behavior and Cognitive science (CSBBCS), July 2018. Intermediating effect of inter-stimuli interval in repetition suppression of face images among adult with high and low level of Autistic-Traits like. A. Sohrabi, S. Maleki, P. Kordestani-Moghadam. Accepted for Oral Presentation

Executive Experiences

1. Head of clinical department, Faculty of Nursing, Lorestan University of Medical Sciences, Khoramabad , IRAN, 2008-2010.
2. Head of Nursing depatment, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2010-2012.
3. Head of Medical-Surgical and Critical Care Nursing depatment, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2017- 2019
4. Head of Critical Care and Emergency Nursing Depatment, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2019- present

Research Activity

1. Research Projects on Influence of Intrapleural Analgesis on Post thoracotomy Pain, Lorestan University of Medical Sciences, Khorramabad, IRAN,2001-2002,.
2. Research Projects on Comparison of Tympanic Temperature in psychiatric patient, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2008-2010.
3. Research Projects on Comparison of Tympanic Temperature and Axillary Temperature for Comatose Patient Hospitalized in ICU Ward and Relationship Between These With GCS, Khorramabad, IRAN, 2008-2012.
4. Research Projects on Comparison of Memory for patient With Temporal Lob Epilepsy With Other Epilepsy, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2008-2010.
5. Research Projects on Relationship Between Serum 25-OHD and FEV1 in Patient With COPD referred to Respiratory clinic, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2009-2010.
6.Comparison of Cognitive Function in Patient With Epilepsy under Anti Epileptic Drug refer to neurological clinic, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2014
7. Sport and Vision, Delft University of Technology, Faculty of Electrical Enigeering, Mathematics and Computer Science. Prof. Dr. Henk Koppelaar, Parastou Kordestani-Moghadam

and … . Netherlands, 2018

Adviser For Doctorate And Msc Students

1. Relationship Between Serum 25-OHD and FEV1 in Patient With COPD referred to Respiratory clinic, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2009-2010.
2. Comparison of Cognitive Function in Patient With Epilepsy under Anti Epileptic Drug refer to neurological clinic, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2014
3. Intermediating effect of inter-stimuli interval in repetition suppression of face images among adult with high and low level of Autistic-Traits like, University of Kurdistan, Department of psychology, Sanandej, IRAN, 2018
4. The effect of Astaxanthin on the stroke volume in male rat, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2018
5. The Influence of Collaborative Learning Using Pair Nursing Student On Self –Efficacy in Clinical Performance. Lorestan University of Medical Sciences, Khorramabad, IRAN, 2018
6. The effect of cognitive rehabilitation and non-invasive brain stimulation on cognitive abilities and daily living activities of patients after ischemic stroke, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2020-2021
7. Comparing the strength of SOFA and APACHE II in predicting the mortality rate and presenting the optimal model by artificial intelligence in patients with the gastrointestinal malignancy hospitalized in ICUs of Shahid Rahimi hospital khorramsabad from 2014 to 2019. , Lorestan University of Medical Sciences, Khorramabad, IRAN, 2020-2021
8. Comparison of the power of APACHE II and SAPSII tools in predicting mortality rates and Optimal modeling using artificial neural network model in patients with leukemia in intensive care units of Lorestan province and khozestan provinces from 2014 to 2019 , Lorestan University of Medical Sciences, Khorramabad, IRAN, 2020-2021
9. The effect of Problem-based Learning on executive functions of nursing students in Khoramabad nursing and midwifery faculty, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2019-2020
10. Effectiveness of balanced salt solution on dry eye in hospitalized comatose patients in intensive care unit, Lorestan University of Medical Sciences, Khorramabad, IRAN, 2019-2020

Memberships

1. Member of the Iranian of Neuroscience Society, 2014- present

Editorial Board

1. Reviewer, Journal of YAFT-E, Lorestan University of Medical Sciences, Khoramabad, Iran, 2003-2012.
2. Persian Editor, Journal of AFLAK, Nursing-Midwifery Faculty, Lorestan University of Medical Sciences, Khoramabad, Iran, 2008-2012.
3. Reviewer, Journal of AFLAK, Nursing –Midwifery Faculty, Lorestan University of Medical Sciences, Khoramabad, Iran, 2005-Present.
4. Reviewers and Editorial Advisory Board, Annals of Anesthesiology and Critical Care, Iranian Society of Anesthesiology and Critical Care, Tehran, Iran, 2016-Present

Research Interests

1. Dementia and Alzheimer's disease
2. Sleep and emotional memory / Decision Making / Executive function / Cognitive Performance
3. Brain Mapping (EEG/ERP, fMRI, PET, MRS)
4. Brain Stimulation (TMS, rTMS, tDCS)
5. Neuropsychological evaluation

6. Cognitive function in psychiatric and Neurodegenerative Disorders
7. Neurocognitive Rehabilitation for critical care patient, Neurological / Neurosurgical patient

Workshops And Certificates

1. Advance Statistics and Research Methodology Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2000.
2. Need Assessment Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2000.
3. Advance Statistics and Research Methodology Course, Research center and Institute of Public Health Researches, Tehran, IRAN 2000.
4. Ethics in Research Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2001.
5. Perism and one note Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2009.
6. Systematic Review studies Workshop, Shahre-kord University of Medical Sciences, Shahre-kord, IRAN, 2009.
7. End Note Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2009.
8. Evidence Base medicine, University of Social Welfare and Rehabilitation Sciences, Tehran, IRAN, 2008.
9. The Art of presentation Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2010.
10. Teaching Methods Workshop, Lorestan University of Medical Sciences, Khoramabad, IRAN, 2010.
11. Clinical trial Workshop, Lorestan University of Medical Sciences, Herbal medicine centre, Herbal medicine centre, Khoramabad, IRAN, 2010.
12. Nano technology Workshop, Lorestan University of Medical Sciences, Herbal medicine centre, Khoramabad, IRAN, 2010.
13. RT – PCR workshop, Shahid Beheshti University of Medical sciences ,Neurobiology Research center,Tehran, Iran, 2014
14. Western Blot workshop, Shahid Beheshti University of Medical sciences ,Neurobiology Research center,Tehran, Iran, 2014
15. IHC workshop, Shahid Beheshti University of Medical sciences ,Neurobiology Research center,Tehran, Iran, 2014
16. Transcranial Direct Current Stimulation (tDCS) course , by Dr. Vahid Nejati ,Mental Health, center of Avizheh , Tehran, Iran, July 2015
17. The sleep Neuroscience Workshop ,by Dr. mohammad Torabi Nami, Mental Health Center of Avizheh, Tehran, Iran, July 2015
18. Voxel Based Morphometry with MRI in Cognitive Studies, by Dr. Bahador Bahrami (institute of Cognitive Neuroscience,UCL), Iran University of Medical Sciences, May 2015
19. Advanced Diffusion MRI and Data Analysis, by Prof A. Leemans etal ,Tehran University of Medical Sciences (RCMCI), March 2013
20. Presurgical fMRI and DTI, Notes and Pitfalls. By Dr. M. Pishnamazi , Tehran, Iran, Jun 2015
21. Principle of Functional MRI Imaging and Analysis Using SPM Software. By Dr. M. Pishnamazi , Mental Health Center of Avizheh, Tehran, Iran, Jan 2016

Short Course

1. Participant in “1th Memory Clinics in Iran (MCI)” under supervision of Prof. Dr. Maryam Norouzian, Sep 2017- May 2018

Skills And Expertise

 Teaching Strategies
 Neuropsychological assessment
 Neurological evaluation
 Neuroimaging and brain mapping
 Animal models in Sleep deprivation
 Cognitive Rehabilitation
 Non invasive Brain Stimulation (tDCS, TMS and rTMS)
 Clinical Practice

Refrences

 Prof. Dr. Mohamad Reza Zarrindast , Professor of Neuropsychopharmacology at Tehran University of Medical Science (TUMS), E-mail: zarinmr@ams.ac.ir
 Dr. Mohamad Nasehi, Associate Professor of Physiology at Institute for Cognitive Science Studies (ICSS), E-mail: mo58na@yahoo.com
 Dr. Fariba Khodagoli, Associate Professor of Biochemistry at Shahid Beheshti of Medical Science University (SBMU), E-mail: khodagoli@sbmu.ac.ir
 Prof. Dr. Henk Koppelaar, Delft University of Technology, Faculty of Electrical Enigeering, Mathematics and Computer Science, Emeritus , Retired Computer Science Professor from Delft University of Technology, the Netherlands. koppelaar.henk@gmail.com