

In the name of GOD

CURRICULUM VITAE (CV)

Dr Zakieh Keshavarzi

Assistant professor of physiology, North Khorasan University of Medical Sciences, Bojnurd, Iran.

Personal Information:

Name: Zakieh
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Phone: +98 58 32297097
Nationality: Iranian
Date of Birth: 1984
Place of Birth: Mashhad

Academic Training:

- B.Sc in midwifery, Rasht University, Rasht, Iran, 2004.
 - M.Sc in human Physiology, Mashhad University, Mashhad, Iran, 2007.
 - Ph.D in human Physiology, Kerman University, Kerman, Iran, 2011.
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Theses:

M.Sc thesis title: The effects of aqueous extract of Teucrium Polium on gastric motility and acid secretions in basal, vagotomized and vagal stimulation conditions.

Ph.D thesis title: The effects of female sexual hormones and estrogen receptor agonists on some gastrointestinal parameters of female rats following traumatic brain injury

Membership of societies:

- Ordinary member of Iranian Physiology and Pharmacology since 2005
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Courses taught:

- Education of human Physiology for all of medical and paramedical students
- Education of laboratory animals for M.sc students

Books:

- Medical physiology for paramedics
 - Physiopack (physiology of endocrine glands)
 - Physiopack (physiology of nervous system)
 - Physiopack (physiology of cell and muscle)
 - Physiopack (physiology of blood)
 - Physiopack (physiology of alimentary tract)
 - Physiopack (physiology of heart & circulation)
 - Physiopack (physiology of kidneys)
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Awards:

- The earning of £1000 travel grant in IUPS congress
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Some of Proposals:

- **The evaluation of cyclooxygenase-2 inhibitors on the gastric emptying, intestinal transit and brain inflammatory cytokines following traumatic brain injury**
- **The effects of estrogen, progesterone and estrogen receptor agonists on the physiological and pathological parameters of gastrointestinal tract following traumatic brain injury in female rats**
- **The evaluation of interaction between melatonin and vagus nerve stimulation on the oxidative system and histopathological parameters following gastric ischemia- reperfusion in male rats**
- **The effects of aqueous extract of aloe vera gel on the colonic cytokine response following acetic acid- induced ulcerative colitis in male rats**
- **The evaluation of the effects of estrogen and progesterone on biochemical and inflammatory parameters and tissue injury following gastric ischemia- reperfusion injury in male rats**
- **Effects of melatonin on gastrointestinal complications in diabetic male rats**

Interests:

- The effect of some traditional plants on the GI tract
 - Gastric ulcer models
 - The effect of TBI on the GI tract (Gut-brain axis)
 - The role of sex hormones on brain edema and GI tract
 - Gastric ischemia- reperfusion model
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Technical skills:

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| • Traumatic Brain Injury (TBI) induction method | Determination of brain water content |
| • Determination of brain Evans blue dye content | Ovariectomy technique |
| • Gastric motility measurement | Gastric acid measurement |
| • Gastric pepsin measurement | ELISA technique |
| • Tracheal intubation | Gastric ulcer models |

Published Articles:**Published Articles in National Scientific and Research journals (Full paper):**

1. **Zakieh Keshavarzi**, Nasibeh Mohammadzadeh, Reza Mohebbati, Vajihe Alikhani. The protective role of Estrogen & Progesterone in male rats, following gastric ischemia-reperfusion. *Acta Endocrinologica (Buc)*; 2017.
2. Shima Eftekhari, **Zakieh Keshavarzi** and Mosa-Al-Reza Hadjzadeh. Neuroprotective Effects of Pine Bark and Aloe vera on the Locomotor Activity in Focal Cerebral Ischemia: Possible Antioxidant Mechanisms. *J Biomed Eng Med Devic* 2016, 1:3.
3. **Zakieh Keshavarzi**, Hadi Akbari, Saeed Forouzanian , Elham Sharifian. Students' perceived efficacy of traditional and integrated method of teaching physiology. *Educ Strategy Med Sci* 2016; 8(6):9-10.
4. **Zakieh KESHAVARZI**, Mohammad KHAKSARI, Taha mohammad REZAPOUR. The Effects of Estrogen and Progesterone on Acid and Pepsin Output Following Traumatic Brain Injury in Rats. *Journal of Neurological Sciences [Turkish]* .2015. 32 :(4); 670-679.
5. Eftekhari, Shima; **Keshavarzi, Zakieh**. The preventive effect of Rutin, Pine bark, Aloe Vera and Celery on oxidative stress factors and movement activity in focal cerebral ischemia model in rats. *Medical journal of Mashhad University of Medical Sciences*. 2016 Special Issue, Vol. 59, p50-50. 1p.
6. **Zakieh Keshavarzi**, Mosa-Al-Reza Hadjzadeh, Shima Eftekhari. The preventive effect of rutin on oxidative stress factors and movement activity in focal cerebral ischemia in rats. *Avicenna Journal of Phytomedicine* . 2015 Supplement, Vol. 5, p31-31. 1/2p
7. **Zakieh Keshavarzi**, Nasibeh Mohammadzadeh. The traumatic brain injury and gut: the role of female sexual hormones. *European Journal of Trauma and emergency surgery*. 2015 (in press).
8. Shima Eftekhari , Heidar Parsaei , **Zakieh Keshavarzi** , Abbas Tabatabaei Yazdi , Mosa-Al-Reza Hadjzadeh , Aliakbar Rajabzadeh , Sina Omid Malayeri. The prevention and treatment effects of egg yolk high density lipoprotein on the formation of atherosclerosis plaque in rabbits. . *Iran J Basic Med Sci* 2015; 18: 343-349.
9. Alikhani V, **Keshavarzi Z**, Hajzadeh M.A.R, Karimi S. The effect of melatonin on gastric parameters following diabetes induction in male rats. *Acta Endocrinologica (Buc)*; 2015: XI, 2, p. 155-161.
10. **Zakieh Keshavarzi**, Mohebbati Reza, Vajihe Alikhani, Bahram Bibak. The protective role of estrogen and progesterone on gastric tissue following gastric ischemia - reperfusion in male rats. *Journal of Zanzan University of Medical Sciences*: 2015; 23:

11. Seyed Mojtaba Mousavi, Saeed Niazmand, Mahmoud Hosseini, Zarha Hassanzadeh, Hamid Reza Sadeghnia, Farzaneh Vafaei, and **Zakiah Keshavarzi**. Beneficial effects of Teucrium polium and metformin on diabetes-induced memory impairments and brain tissues oxidative damage in rats. *International Journal of Alzheimer's Disease*; 2015;2018:1-8.
12. **Zakiah Keshavarzi** , Vajihe Alikhani, Mehran Vatanchian , Abbas Tabatabaei Yazdi, Bahram Bibak, Mohebbati Reza. Effects of *Aloe Vera* Gel on Gastric Acid Secretion and Colon Histopathology in Ulcerative Colitis Model induced by Acetic Acid in Rats. *Journal of Zanjan University of Medical Sciences*: 2015; 22(95):1-11.
13. **Zakiah keshavarzi**, Mohammad Khaksari, Nader Shahrokhi. The effects of female sexual steroids on gastric function and barrier resistance of GI tract following traumatic brain injury. *Journal of Pharmacy and Bioallied Sciences*. 2015; 7(1):75-80.
14. Nader Shahrokhi, **Zakiah keshavarzi**, Mohammad Khaksari. Ulcer Healing Activity of Mumijo Aqueous Extract Against Acetic Acid Induced Gastric Ulcer in Rats. *Journal of Pharmacy and Bioallied Sciences*. 2015; 7(1): 56-59.
15. Maryam Sabaghian, **Zakiah Keshavarzi**, Bahram Bibak, , Mehran Vatanchian, Taha Mohammad Rezapour. The effect of aqueous extract of Aloe vera leaves on gut-brain axis response following acetic acid -induced gastric ulcer in male rats. 2014; *Journal of North Khorasan University of Medical Sciences*: Summer 2014;6(2):358.
16. Mosa-Al- Reza Hadjzadeh, Habib Ghanbari, **Zakiah Keshavarzi**, Jalil Tavakol Afshari. The effects of aqueous extract of Alpinia Galangal on gastric cancer cells (AGS) and L929 cells in vitro. *Iranian journal of cancer prevention*. 2014; 3:142-6.
17. **Zakiah Keshavarzi** , Mohammad Khaksari , Nader Shahrokhi. The effects of cyclooxygenase inhibitors on the gastric emptying and small intestine transit in the male rats following traumatic brain injury. *Iran J Basic Med Sci*. 2014; 17:406-410.
18. **Zakiah Keshavarzi**, Taha Mohammad Rezapour, Mehran Vatanchian, Mohammad Zare Hesari, Hadi Nabizade Haghighi, Mostafa Izanlu, Maryam Sabaghian, Kaveh Shahveisi. The effects of aqueous extract of Aloe vera leaves on the gastric acid secretion and brain and intestinal water content following acetic acid- induced gastric ulcer in male rats. *Avicenna J Phytomed*, 2014; 4 (2): 137-143.
19. Mousa-Al-Reza Hadjzadeh, Ziba Rajaei, **Zakiah Keshavarzi**, Mohsen Ghasem Shirazi, Vahedeh Toosi. Effect of aqueous extract of *Rheum ribes* on cisplatin-induced nephrotoxicity in rat. *Journal of Pharmacy and Bioallied Sciences* 2013, 5 ;1: 80-84.

20. Khaksari M, **Keshavarzi Z**, Gholamhoseinian A, Bibak B. The effect of female steroids hormones on intestinal and serum cytokines response after traumatic brain injury: different role for estrogen receptor subtypes. *Can. J. Physiol. Pharmacol.* 2013;91: 700–707.
21. Mousa-Al-Reza Hadjzadeh, **Zakieh Keshavarzi**, Seyed Abbas Tabatabaee Yazdi, Mohsen Ghasem Shirazi, Ziba Rajaei, Abolfazl Khajavi Rad, Effect of Alcoholic Extract of Nigella Sativa on Cisplatininduced Toxicity in Rat, *Iranian Journal of Kidney Diseases*, **2012**, number of **6**.
22. **Zakieh Keshavarzi**, Mohammad Khaksari, Asadikaram Gholamreza, "The Effects of Female Sexual Hormones and Estrogen Receptor Agonists on The NF-κB p50 and p65 Levels Following TBI in Rat Intestine", *Journal of Neurological Sciences [Turkish]*, , **2012**, number of **29**.
23. **Zakieh keshavarzi**, Mohammad Khaksari, Zohre Razmi, Ava Soltani Hekmat, Vida Naderi, Sima Rostami , "The Effects of Cyclooxygenase Inhibitors on the Brain Inflammatory Response Following Traumatic Brain Injury in Rats", *Iranian Journal of Basic Medical Sciences*, **2012**, number of **15**.
24. Nader Shahrokhi , Mohammad Khaksari Haddad, Siavash Joukar, Mohammad Shabani, **Zekie Keshavarzi** and Bidoallah Shahozehi, "Neuroprotective antioxidant effect of sex steroid hormones in traumatic brain injury", *Pak. J. Pharm. Sci.*, **2012**, number of **25**.
25. **Zakieh Keshavarzi**, Mohammad Khaksari Haddad, "Effects of Female Sexual Hormones on the Gastric Motility Activity following Traumatic Brain Injury in Female Rats", *Journal of Babol University of Medical Sciences*, **2012**, number of **6**. (In Persian)
26. Abolfazl Khajavi Rad, Leila Ghazi, Mohammad Taher Boroushaki, Alireza Khoei, **Zakieh Keshavarzi**, Sara Hosseinian, Somayeh Shafiee, Shahrzad Havakhah, "Effect of commercial (vimang) and hydroalcoholic extract of Mangifera indica (Mango) on gentamicin-induced nephrotoxicity in rat", *Avicenna Journal of Phytomedicine*, **2011**, number of **25**.
27. Abolfazl Khajavi Rad , Mousa-Al-Reza Hajzadeh , Ziba Rajaei , Mohammad- Hadi Sadeghian , Nooshin Hashemi , **Zakieh Keshavarzi**, "Preventive effect of Cynodon dactylon against ethylene glycol-induced nephrolithiasis in male rats", *Avicenna Journal of Phytomedicine*, **2011**, number of **1**.
28. Hajzadeh Mousa-Al-Reza , Rajaei Ziba , **Keshavarzi Zakieh** ,Sharifi rad Tania , Sadeghian Mohammad-Mahdi, "The Effect of Verjuice on Serum Lipid Levels in Mice Rendered Atherosclerosis", *Journal of Biologically Active Products from Nature*, , **2011**, number of **1**.
29. Zahra Soltani, Mohammad Khaksari Hadad, Alireza Sarkaki, **Zakieh Keshavarzi**, Farzaneh Esmaeeli, "The Role of Proinflammatory Cytokines in Mediation of Brain Antiedema Effect of Female Sex Steroids Following Traumatic Brain Injury", *Journal of Kerman University of Medical Sciences*, **2011**, number of **2**. (In Persian)
30. Alireza Sarkaki, Mohammad Khaksari Hadad, Zahra Soltani, **Zakieh Keshavarzi**, Nader Shahrokhi, gholamreza Asadi karam, "Neuroprotective antioxidant effect of sex steroid hormones

in traumatic brain injury", *Journal of Kerman University of Medical Sciences*, **2011**, number of **1**. (In Persian)

31. **Zakieh Keshavarzi**, Mohammad Khaksari Hadad, Mohammad Javad Zahedi, Abbas Bahrami, "The Effects of Female Sex Steroids on Gastric Secretary Responses of Rat Following Traumatic Brain Injury", *Iranian Journal of Basic Medical Sciences*, **2010**, number of **14**.
32. Nadar Shahrokhi, Muhammad Khaksari Hadad, **Zakieh Keshavarzi**, Muhammad Shabani, Effects of Aqueous Extract of Water Cress On Glucose And Lipid Plasma in Stereptozytosin Induced Diabetic Rats. *Pak J Physiol*, **2009**, number of **5**.
33. Niazmand S, Hajzadeh Mousa-Al-Reza, **Zakieh Keshavarzi**. The effects of aqueous extract of Teucrium Polium on the gastric acid secretion in basal, vagotomized and vagal stimulation. *Journal of Babol University of Medical Sciences*, **2007**, number of **3**. (In Persian).
34. Niazmand S, Hajzadeh Mousa-Al-Reza, **Zakieh Keshavarzi**. The effects of aqueous extract of Teucrium Polium on gastric motility in basal, vagotomized and vagal stimulation. *Iranian Journal of Basic Medical Sciences*, **2007**, number of **1**. (In Persian).

Published Abstracts and Presentation of Congress:

1. Zeynab Ashaari, **Zakieh Keshavarzi**, Reza Mohebbati, Vajiehe Alikhani. The protective role of estrogen and progesterone on gastric tissue following gastric ischemia-reperfusion in male rats. 22st international Iranian congress of physiology & pharmacology 2015.
2. Vajieheh Alikhani, **Zakieh Keshavarzi**, Mousa-Al-Reza Hadjzadeh. Effects of melatonin on gastrointestinal complications in diabetic male rats. 22st international Iranian congress of physiology & pharmacology 2015.
3. **Zakieh Keshavarzi**, Mohammad Khaksari. The effect of sexual hormones on the intestinal TNF- α after traumatic brain injury. *International Basic and clinical neuroscience congress, 2014*.
4. **Zakieh Keshavarzi**, Mohammad Khaksari. The effect of female sexual hormones on endotoxin levels following traumatic brain injury. *International Basic and clinical neuroscience congress, 2014*.
5. Alikhani Vajieheh, Hajzadeh Mousa-Al-Reza, **Keshavarzi Zakieh**. Effects of melatonin on gastrointestinal complications due to diabetes in diabetic rats. *6th international congress of laboratory and clinic. 2014*.
6. Hajzadeh Mousa-Al-Reza, Vajieheh Alikhani, **Keshavarzi Zakieh**. Effects of melatonin on blood glucose and body weight in diabetic rats. *6th international congress of laboratory and clinic. 2014*.
7. **Zakieh Keshavarzi**, Mohammad Khaksari. The effect of female sexual hormones on the intestinal and serum IL-1 β response after traumatic brain injury: different roles for estrogen receptor subtypes. *International Basic and clinical neuroscience congress, 2013*.
8. **Zakieh Keshavarzi**, Mohammad Khaksari. The effect of female sexual hormones on the intestinal and serum IL-6 response after traumatic brain injury: different roles for estrogen receptor subtypes. *International Basic and clinical neuroscience congress, 2013*.
9. **Zakieh Keshavarzi**, Zinab Ashari, Mohammad Khaksari Haddad. The effects of cyclooxygenase inhibitors on the gastric emptying and small intestine transit in the male rats following traumatic brain injury. 21st international Iranian congress of physiology & pharmacology 2013.
10. **Zakieh Keshavarzi**, Mohammad Khaksari Haddad. The effects of female sexual hormones and estrogen receptor agonists on the NF-kB p50 levels following TBI in intestine of female rats. 21st international Iranian congress of physiology & pharmacology 2013.
11. **Zakieh Keshavarzi**, Mohammad Khaksari Haddad. The effects of female sexual hormones and estrogen receptor agonists on the NF-kB p65 levels following TBI in intestine of female rats. 21st international Iranian congress of physiology & pharmacology 2013.

12. **Zakieh Keshavarzi**. The effects of female sexual hormones and estrogen receptor agonists on the NF- κ B p65 and p50 levels following TBI in female rat intestine. International **IUPS** congress, England, **2013**.
13. Mitra salehi, Adinezadeh Amir, **Zakieh Keshavarzi**. The epidemiology of Hydatid cyst in North Khorasan province in 1388-1390 years. The 21 th Iranian congress on infectious disease and tropical medicine. **2013**.
14. **Zakieh Keshavarzi**, Mohammad Khaksari Haddad, "The Effects of Cyclooxygenase Inhibitors on the Brain Inflammatory Response Following Traumatic Brain Injury in Rats", *International Basic and clinical neuroscience congress*, **2012**.
15. **Zakieh Keshavarzi**, Nader Shahrokhi, Mohammad Khaksari Haddad, "Effects of mumijo aqueous extract on healing of acetic acid- induced gastric ulceration", *National Conference of Natural Products and Medicinal Plants*, September **2012**.
16. **Zakieh Keshavarzi**, Mousa-Al-Reza Hajzadeh, Abbas Tabatabaee Yazdi "Effect of alcoholic extract of nigella sativa on cisplatin- induced toxicity in rat", *National Conference of Natural Products and Medicinal Plants*, September **2012**.
17. Khadijeh Foghi, **Zakieh Keshavarzi**, Nader Shahrokhi. Effects of Aqueous Extract of Nasturtium Officinale (NF) on Glucose And Lipid Plasma in Streptozotocin Induced Diabetic Rats. *National Conference of Natural Products and Medicinal Plants*, September **2012**.
18. **Zakieh keshavarzi**, Taha Mohammadrezapour, "The effects of female sexual hormones and estrogen receptor agonists on gastric motility of rat following traumatic brain injury", *8th East University of Medical Sciences Research Festival, Bojnurd*. **2012**.
19. **Zakieh keshavarzi**, dr mohammad khaksari hadad. The effects of female sex steroids on gastric motility response of rat following traumatic brain injury. *Iranian congress of endocrine & metabolism updates*. 30 Nov- 3 Dec 2010 (Isfahan, Iran)
20. **Zakieh keshavarzi**, mohammad khaksari hadad ."The effects of sex steroids on gastric motility response of rat stomach following Traumatic Brain Injury". 12th Iranian Pharmaceutical Science Congress (IPSC2010) .2-5 August **2010**, Zanjan University of Medical Sciences, Zanjan, Iran. Poster.
21. Mohammad khaksari hadad, **Zakieh keshavarzi**. "The effects of sex steroids on gastric secretory responses of rat stomach following Traumatic Brain Injury".12th Iranian Pharmaceutical Science Congress (IPSC2010) .2-5 August **2010**, Zanjan University of Medical Sciences, Zanjan, Iran. Poster.
22. **Keshavarzi Z.**, Hosaini KH., Niazmand S."The inhibitory effect of *Ziziphora clinopodioides Lam.* on gastric acid secretion at basal, vagotomized and vagal stimulated conditions in rat". The 11th Iranian Pharmaceutical Sciences Conference (IPSC2008)" Kerman, Iran, 18-21 August, **2008**.
23. **Keshavarzi Z**, Niazmand S, Hajzadeh Mousa-Al-Reza. The effects of aqueous extract of Teucrium Polium on gastric motility in basal, vagotomized and vagal stimulation. 18th Iranian Congress of Physiology & Pharmacology.

24. Niazmand S, Hajzadeh Mousa-Al-Reza, **Keshavarzi Z**. The effects of aqueous extract of Teucrium Polium on gastric acid secretion in basal, vagotomized and vagal stimulation. 18th Iranian Congress of Physiology & Pharmacology.
 25. **Keshavarzi Z**, Moghaddas A, Boskabady M-H. The effects of hydro- alcoholic extract of black seeds on the asthmatic tracheal rings of guinea pigs. 17th Iranian Congress of Physiology & Pharmacology.
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