

IN THE NAME OF GOD

Curriculum Vita

I. PERSONAL INFORMATION:

NAME: Giti Torkaman

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II. EDUCATIONAL RECORDS:

Degree Institution Field date

B. Sc. Iran Medical Sciences physical therapy 1988

M. Sc. Tarbiat Modares University physical therapy 1992

Ph.D. Tarbiat Modares University Medical physics 2000

III. ACADEMIC EXPERIENCES:

Instructor Tarbiat Modares University, Tehran, Iran, (Since 1992-1999)

Assistant professor Tarbiat Modares University, Tehran, Iran, (Since 2000)

Associate Professor Tarbiat Modares University, Tehran, Iran, (Since 2006)

Professor Tarbiat Modares University, Tehran, Iran (Since 2011)

IV. MEMBERSHIP OF SCIENTIFIC SOCIETIES:

Iranian Biomedical Engineering Society
European Biomechanical Society

V. REFEREE FOR JOURNAL ARTICLES SUBMITTED TO:

- 1) Education Research Theory and practices
- 2) Archives Dermatology Research
- 3) Photomedicine and Laser Surgery
- 4) Modarres Journal of Medical Sciences
- 5) Daneshvar
- 6) Journal of Iran Medical Sciences University
- 7) Journal of Tehran Medical Sciences University
- 8) Birjand University of Medical Sciences
- 9) Zanjan University of Medical Sciences
- 10) Iranian journal of Physiology and pharmacology
- 11) Iranian journal of Biomedical engineering
- 12) Reviewer of IEEE, Engineering in Biology and Medicine Society Conferences since 2008-2011

VI. RESEARCH INTERESTS:

- 1) Biomechanics of normal and injured Tissues and electromechanical treatment of them
- 2) Effect of electromechanical stimulus on the activity of neuromuscular system
- 3) Effect of training on the musculoskeletal systems

VII. JOURNAL PAPERS [Author(s), Journal Name, Volume(Year) Page(s)]:

- 1) Eftekhar Hosseini A., Torkaman G.; "Etiology, physiopathology, early detection and treatment of Pressure sores: A review"; Daneshvar; 1993; No. 142; pp: 22-32.
- 2) Hamed H., Firroozabadi S.M.P., Torkaman G., Faghihzadeh S.; "The effects of percutaneous lumbar stimulation on the H-reflex Parameters"; Daneshvar; 1999; 6(23); 73-78.
- 3) Torkaman G., Fallah A., Sharafi A.A., Katoozian H.R., EftekharHosseini A., Faghihzadeh S., Mofeed M.; "Design a skin indentor system to produce controlled pressure sore on the experimental animals"; Daneshvar; 1999; 6(24); 59-64.
- 4) Okhovvatian F., Hosseini Khameneh S.M.; Torkaman G., Sarmadi A.R.; "Energy cost during ambulation with different crutches in patient with spinal cord injuries"; Pejouhesh; 2001; 25(3); 127-135.
- 5) Torkaman G., Sharafi A.A., Fallah A., Katoozian H.R.; "Blood biochemical changes following external force application in guinea pig: Early detection of pressure sore"; Iranian Biomedical Journal; Oct. 2000; 4(4); 140.
- 6) Hajimohammadi M., Karimi H., Torkaman G., Fahihzadeh S.; "The effect of clinical application of cold on Knee Joint position sense in uninjured population"; Modarres Journal of Medical Sciences; 2001; 4(2); 115-121.
- 7) Firoozabadi S.M.P., Torkaman G., Ebrahimi F.; "A Comparative study on soleus H-reflex parameters using vertebral column and peripheral nerve stimulation"; Physiology and Pharmacology; 2002; 6(1): 91-98.
- 8) Ravanbod R., Torkaman G., Baghaipoor M.R., Nadali F.; "Effect of ergometric exercise on factor VIII coagulant activity in patients with mild and moderate hemophilia-A"; J Thrombosis

Haemostasis;Vol 1;Supplement 1;July 2003; p:133.

- 9) Navid A.,Torkaman G.,Firoozabadi S.M.P.; Study of H-reflex signal recruitment curve after tripolar TENS on vertebral column desensitized skin; Physiology and Pharmacology;2003-2004;7(2):123-134.
- 10) Ravanbod R.,Torkaman G.,Baghaipour M.R., Nadali F ;The influence of exercise upon F VIII C and vWF;Ag Levels in Mild or Moderate Haemophilia; Physiology and Pharmacology; 2003- 2004;7(2):149-156.
- 11) Pakzad M.,Torkaman G., Firoozabadi S.M.P.;The effect of superficial Electrical stimulation of the motor units of tibialis anterior muscle on the H-reflex parameters of soleus muscle; Modarres Journal of Medical Sciences; 2004; 7(1); 31-38.
- 12) Sarmadi A.R., Firoozabadi S.M.P., Torkaman G., Fathollahi Y.;Assessing information of soleus and gastrocnemius motor unit H-reflex response to paired stimulation; ; Electromyography and Clinical Neurophysiology;2004;44:401-408.
- 13) Torkaman G., Sharafi A.A., Fallah A., Katoozian H.R., Mofeed M; Study of Skin Response to Applied pressure in Model of Guinea Pig ; J Biomedical Engineering ;2004;1(1);91-99.
- 14) Kazerani A. , Firouzabadi S.M.P. , Torkaman G. , Sarmadi A. Comparing the fractal parameters of soleus and gastrocnemius muscle H-reflex after application of bipolar and tripolar TENS on Human vertebral column. .Iranian Journal of Medical Physics ; 2004; 1(4&5):51-58.
- 15) Shadmehr A. , Estaki A., Oliai G.H. , Madadi F., Torkaman G., Bitarafan A.A., Sabbaghian A. Design and construct of an instrument to accelerate bone repair.Iranian Journal of Medical Physics ; 2004; 1(4&5):17-22.
- 16) Bagheri H.,Torkaman G.,Rahbari Helabadi A.The effects of strength training of the ankle muscles on balance. Journal of Faculty of Medicine;Tehran University;2006;No:11;p:893-902.
- 17) Yousefi-Diba A. A, Mokhtari-Dizaji M, Larijani B, Salehnia M, Torkaman G.The effect of laser therapy of 30 mW on bone repair: Histological study. The Journal of Iranian Anatomical Sciences;Vol 3 Spring 2005 No:1;pp:67-74.
- 18) Mehmadoost F., Torkaman G., Firoozabadi S.M.P., Talebi G. The Effect of Anodal and Cathodal Electrical Stimulation (I.D.C.) on Wound Healing, Journal of Daneshvar ; Aug.-Sep. 2005; vol. 12, no. 58, pp: 37-44.
- 19) Naeemi SS,Firoozabadi M,Torkaman H,Niromanesh SH.Relation between trunk projection accuracy and backache during pregnancy.Pejouhandeh Biomonthly Research Journal;2006;10(1):31-38.
- 20) Rezaeian Z. , Torkaman G ., Nadali F., Ravanbod R., Goushe B., Nejatian M., Broumand M.A,Pourfathollah AA. . Effect of physical fitness on Coagulant Activity in healthy young men .Pakistan Journal of Biological Sciences,2006,9(11):2032-2039.
- 21) Mokhtari-Dizaji M, Dadras MR, Larijani B, Torkaman G. Quantitative ultrasound to predict the mechanical properties of bone. Journal of Biomechanics2006, Vol 39(suppl 1):s465
- 22) Jamshidi F,Torkaman G,Firoozabadi SMP.The effect of cathodal and anodal electrical stimulation on the biomechanical prperties of pressure sore in guinea pig. Journal of Biomechanics2006,Vol 39(suppl 1):s394.
- 23) Ravanbod R,Torkaman G,Baghaipour MR,Nadali F.Effect of ergometric exercise on F-VIII coagulant activity in Mild and moderate haemophilia-A:A chance to reduce injective replacement therapy.Pakistan Journal of Biological Sciences,2006,9(15):2823-2827.
- 24) Rezaeian Z. , Torkaman G ., Nadali F., Ravanbod R., Goushe B., Nejatian M., Broumand M.A,Pourfathollah AA. Effect of aerobic training on Coagulant Activity in healthy young men. Physiology and Pharmacology; 2006;10(1):79-85.
- 25) Karimzadeh Shirazi K,Wallace LM,Niknami SH,Hidarnia A,Torkaman G,Gilchrist M,Faghizadeh S.A home-based transtheoretical change model designed strength traning

intervention to increase exercise to prevent osteoporosis in Iranian women aged 40-65 years:a randomized controlled trial.J Health Education Research Theory and practices;2006; 22(3):305-317.

- 26) Salehi H, Torkaman G, Firoozabadi SMP. The effect of spinal skin cooling with topical ointment on the recruitment curve parameters of soleus H-reflex.Accepted in Physiology and Pharmacology;2006; 10:151-157.
- 27) Salehi H, Torkaman G, Firoozabadi SMP. Study the concomitant effect of topical anesthesia and cold on the recruitment curve parameters of H-reflex.Iranian Journal of Medical Physics, 2006; 2(9):55-70.
- 28) Talebi GA, Torkaman G, Firouzabadi SMP, Shari at S, Karbasi V. The Study of the wound potential changes during the healing process and its relation to wound size. Kowsar Medical Journal,2006;11(30):241-250.
- 29) Talebi GA, Torkaman G, Firouzabadi SMP, Shariat S, Mofid M. Effect of anodal and cathodal microamperage electrical stimulation on injury potential and size of acute wound in guinea pig.Iranian Journal of Medical Physics;2006;3(10):23-34.
- 30) Kamali F, Ebrahimi E, Bayat M,Torkaman G, Salavati M.The effect of low laser therapy on the repair of osteochondral defects in rabbit knee. .Iranian Journal of Medical Physics, 2006; 2(9):81-88.
- 31) Shadmehr A, Estaki A, Madadi , Torkaman G, Jalaei Sh. The influence of controlled cyclic movements upon healing of experimental tibial fractures. Tehran University Medical Journals; 2006; 63(12):965-973.
- 32) Mehandoust F, Torkaman G, Firoozabadi M, Talebi G. Study of anodal and cathodal pulsed electrical stimulation on skin wound healing in guinea pig, Journal Rehabilitation Research and Development 2007;44(4): 611-18.
- 33) Talebi GA, Torkaman G, Firouzabadi SMP, Shariat S. Effect of anodal and cathodal microamperage direct current on skin wound healing: A biomechanical and histological study. Journal of Biomechanics, Volume 40, Supplement 2, 2007, Page S662.
- 34) Naghii MR, Torkaman G, Mofid M. Effects of boron and calcium supplementation on mechanical properties of bone in Rats. Biofactors, 2006, 28(3-4):195-201.
- 35) Kamali F, Bayat M,Torkaman G, Ebrahimi E, Salavati M.The therapeutic effect of low laser therapy on the repair of osteochondral defects in rabbit knee.Journal of Photochemistry and Photobiology B: Biology, 2007; 88: 11-15.
- 36) Simorgh L, Torkaman G, Firoozabadi SMP. Effect of tripolar TENS of vertebral column on slow and fast motor units: Apreliminary study using H-reflex recovery curve method. Physiology and pharmacology, 2007;10:331-342.
- 37) Naimi S, Firoozabadi SMP, Torkaman G, Moradi A, Haghivand S, KHoshamooz Y, Sarmadi AR. Comparison of effectiveness and durability of two stretching methods(Hold-Relax and Static stretching muscle tightness. Tabib –e-Shargh, 2007; 4:261-269.
- 38) Yasrebi B, Estaki A, Sharafi AA, Torkaman G, Shadmehr A. Study of biomechanical properties and bone density of osteoperforated Rabbit tibia during bone repair period. Feyz, 2007; 4:41-45.
- 39) Kamali F, Bayat M,Torkaman G, Ebrahimi E, Salavati M. Biomechanical evaluation of spontaneity repair of osteochondral effects in rabbit knee.Iranian J of Rehabilitation; 2007; 7(4):25-29.
- 40) Rezaeian Z., Torkaman G., Nadali F., Ravanbod R., Goushe B., Nejatian M., Broumand M.A,Pourfathollah AA. . Effect of physical fitness on Coagulant Activity in healthy young men. Harekat, 2007, 9(11):2032-2039.

- 41) Mokhtari Dizaji M, Yousefi- Diba A, Larijani B, Salehnia M, Torkaman G, Dadras R. Assessing the efficiency of ultrasound parameters in the detection of bone repair process. *Iranian J Medical Physics*. 2006; 3(10): 45-54.
- 42) Salehi K, Mohammadi E, Torkaman G, Hoseini SM. The effect of TENS on range of motion and morning stiffness of knee joint on patient with osteoarthritis. *J of Shahrekord University of Medical Sciences*; 2007; 9(2):62-67.
- 43) Naghii MR, Torkaman G, Mofid M. Effects of boron and calcium supplementation on mechanical properties of bone in Rats. *Pajouhesh Dar pezeshki*, 2007, 31(1):73-78.
- 44) Talebi GA, Torkaman G, Firouzabadi SMP,Mofid M, Shariat S, Mofid M. Effect of anodal and cathodal microamperage direct current stimulation on injury potential and wound size in guinea pig. *Journal Rehabilitation Research and Development* 2008; 45(1): 153-160.
- 45) Karimzadeh Shirazi K, Niknami SH,Hidarnia A, Wallace LM, Torkaman G, Faghihzadeh S. Effect of a TTM-based osteoporosis preventive physical activity education on increasing muscle strength and balance in women aged 40-65. *Hakim*, 2007; 10(2):34-42.
- 46) Salehi K, Mohammadi E, Torkaman G, Movassaghi Sh. The effect of TENS on Pain and quality of life in the knee osteoarthritis. 2008; 70:59-66.
- 47) Naeemi SS,Firoozabadi M,Torkaman G. Impacts of pregnancy on lumbar properceptive changes and biomechanical diversion of gait. *Pejouhandeh*; 2008; 5(59):423-434.
- 48) Abdi Sh, Javadieh F, Bayat M, Mohsenifar X, Torkaman G, Sadeghi Y, Rezaei F. The eefect of low level Helium- Neon laser therapy on healing of partial thickness defect of experimental induced diabetic rats.*Journal of Iranian Anatomical Sciences*; 2007; 5(19-20):115-123.
- 49) Torkaman G, Fallah A, Mofid M, Ghiaci S, Talebi GA. Effect of continuous, repeated and intermittent pressure on the biomechanical and histological characteristics on guinea pig skin. *Iranian Journal of Biomedical Engineering*, 2007 (3): 215-226.
- 50) Karimi N, Ebrahimi I, Kahrizi S, Torkaman G.Evaluation of postural balance using the bidex balance system in subjects with and without low back pain. *Pak J Med Sci* 2008;24(3):372-377.
- 51) Sadraie H, Jalali M, Kaka Gh, Mofid M, Rezaei Y, Torkaman G, et al. Study of the effect of intermittent low intensity pulsed ultrasound on callus formation of tibia in Rabbit (A radiological and biomechanical evaluation). *J Rafsanjan Medical Sciences University*; 2008; 7(1):39-48.
- 52) Simorgh L, Torkaman G, Firoozabadi M. Effects of tripolar TENS on slow and fast motoneurons: A preliminary study using H- reflex recovery curve method.*Electromyogr. Clin. Neurophysiol.* 2008,48:301-309.
- 53) Talebi GA, Torkaman G, Firouzabadi SMP,Mofid M, Shariat S.Externally applied electricity for influencing on injury potential, mechanical and histological characterization of wound.*J Biomechanics*; 2008,41(s1):s190.
- 54) Talebi GA, Torkaman G, Firouzabadi SMP,Mofid M, Shariat S. Effect of micro-amperage DC on skin wound healing in guinea pig. *Medical Journal of Tabriz University of medical Sciences* 2008; 30(3):71-8.
- 55) Shadmehr A, Esteki A, Oliaie GR, Torkaman G, Sabbaghian A. Augmentation of bone healing by specific frequency and amplitude compressive strains.*Orthopedics* 2009; 32(3):173-9.
- 56) Moghimi S, Miran Beygi MH, Torkaman G, Mahloogi Far A. Assessment of artificially induced pressure sores using a modified fractal analysis. *J applied Sciences* 2009; 9(8): 1544-49.
- 57) Riahy S, Eimany H, Torkaman G, d Mofid M, Asgari A, Goshoony H, , Khoshbaten A. Effect of topical application of honey on skin wound healing with full thickness in male rats. *Kowsar Medical Journal*, 2008; 13(3):169-178.
- 58) Habibi M, Torkaman G, Goosheh B, Hedayati M. The effect of combined resistance-aerobic and aerobic training on the coagulative factors of young healthy men. *Iranian Journal of Physiology and Pharmacology*. 2009; 13(1): 98-107.

- 59) Sarmadi A, Firoozabadi M, Torkaman G, Fatollahi Y. The effects of vertebral column tripolar electrical stimulation with various intensities on soleus and gastrocnemius H-reflex and M_h wave recruitment curve. *Iranian Journal of Physiology and Pharmacology*. 2009; 13(2):229-243.
- 60) Jahangard T, Torkaman G, Goosheh B, Hedayati M, Dibaj A. The acute& permanent effect of short term aerobic training on coagulation& fibrinolytic factors& lipid profiles in postmenopausal women. *Iranian Journal of Endocrinology & Metabolism*. 2009; 11(3): 273-283.
- 61) Jahangard T, Torkaman G, Goosheh B, Hedayati M, Dibaj A. The effect of short term aerobic training on antigenicity and activity of tPA and PAI in postmenopausal women. *Kowsar Medical Journal*. 2009; 14(1): 37-42.
- 62) Moghimi S, Miran Beygi MH, Torkaman G, Mahloogi Far A. Studying the Mechanical Behavior of Tissue in the Generation of Pressure Sores using Simulation and a Guinea Pig Experimental Model. *Iranian Journal of Medical Physics*. 2008 5(2) : 85-92.
- 63) Karimi N, Ebrahimi I, Ezzati K, Kahrizi S, Torkaman G, Arab AM. The effects of consecutive supervised stability training on postural balance in patients with chronic low back pain. *Pak J Med Sci* 2009 25(2): 177-181.
- 64) Jahangard T, Torkaman G, Goosheh B, Hedayati M, Dibaj A. The Effect of Short-term Aerobic Training on Coagulation & Fibrinolytic Factors in Sedentary Healthy Postmenopausal Women. *Maturitas* 2009 64:223-227.
- 65) javadian F, Bayat M, TorkamanG. Evaluation of Low-Level Laser Therapy with a He-Ne Laser on the Healing of an Osteochondral Defect using a Biomechanical Test. Accepted in Photomed Laser Surg 2010 Jun; 28(3):423-28.
- 66) Moghimi S, Miran Beygi MH, Torkaman G, Mahloogi Far A. Quantitative assessment of pressure sore generation and healing through the numerical analysis of high frequency ultrasound images. *JRRD* 2010 47(2): 99-108.
- 67) Moghimi S, Miran Beygi MH, Torkaman G, Ehsanollah Kabir, Mahloogifar A, Armanfard N. Studing pressure sores through illuminant invariant assessment of digital color images. *Journal of Zhejiang University- Science A* 2010, 11(8): 598-606.
- 68) Roya Ravanbod, Giti Torkaman, Ali Esteki. The measurement of rabbit's knee friction with a pendulum friction tester. *Modares, Journal of Medical Sciences: Pathobiology* 2010, spring 13: 57-67.
- 69) Asadi MR, Torkaman G, Hedayati M. The effect of sensory and motor electrical stimulation in VEGF expression of muscle and skin in full thickness wound. *JRRD* 2011,48(3): 195-202.
- 70) Roya Ravanbod, Giti Torkaman, Ali Esteki. Biotribological and biomechanical changes after experimental haemarthrosis in the Rabbit knee. *Haemophilia* 2011, 17: 124-133.
- 71) Sadraie Sh, Kaka GhR, Mofid M, Torkaman G, Monfared MJ. Effects of low intensity pulsed ultrasound on healing of denervated tibial fracture in the rabbit. *Iranian Red Crescent Medical Journal* 2011, 13(1): 34-41.
- 72) Hoseini Sanati M, Torkaman G, Hedayati M, Mohktari Dizji M. Effect of Ga-As and He-Ne laser on the improvement of biomechanical characteristics recovery in full-thickness wound. *Lasers in Medicine* 2010, 7(1): 6-13.
- 73) Hoseini Sanati M, Torkaman G, Hedayati M, Mohktari Dizji M. Effect of Ga-As and He-Ne laser on injury potential of skin full-thickness wound. *J Photochemistry Photobiology B: Biology* 2011, 103: 180-185.
- 74) Moghimi S, Miran Beygi MH, Torkaman G. Automatic evaluation of pressure sore status by combining information obtained from high-frequency ultrasound and digital photography. *Computers in Biology and Medicine* 2011 Jul;41(7):427-34.
- 75) Nagii MR, Darvishi P, Ebrahimpour Y, Mofid M, Torkaman G, Asghari R, Hedayati M. whole body vibration is a safe exercise training method and induce no impaired. *Acta Physiologica*

Hungarica 2011, 98(4): 442-448.

- 76) Yousefi Kordinezhad A, Torkaman G, Firoozabadi M. effect of tendon and bulk vibration of soleus muscle on threshold and positive slope. Accepted in Journal of Physical therapy science.
- 77) Roghani T, Torkaman G, Movasseghe Sh, Hedayati M, Goosheh B, Bayat N. The effect of 6-week submaximal training with and without external loading on cardiovascular fitness, balance, cortisol, and lipid profiles in osteoporotic postmenopausal women. Accepted in IJEM.
- 78) Rezaeian Z, Torkaman G, Esteki A, Sabagheian A, Ravanbod R. Effects of low level laser therapy on articular cartilage biomechanics in an experimental model of osteoarthritis. Osteoarthritis and Cartilage 2011, 19: s225-226.
- 79) Hoseini Sanati M, Torkaman G .The effective mechanisms of low level laser therapy on wound healing: Review article. Accepted in Iranian Journal of Lasers in Medicine
- 80) Valaei K, Bayat M, Torkaman G, Dadpay M, Rezaie F. Evaluating the effects of petoxifylline administration on experimental pressure sore in Rats by biomechanical examinations. Journal of Iranian Anatomical Sciences; Autumn 2010 & Winter 2011,169-178.

VIII.

1)

IX. LIST OF PAPERS PERSENTED IN CONGRESSSED AND SEMINARS

[Author(s), Name of Congress, City, Country, Year, Proceeding, Page(s)]:

- 1) Torkaman G., Taheri H., Azizi E.; Study of Iodine Iontophoresis on treatment of hand tendons adhesion; The third physical therapy congress; 1991; Tehran; Iran.
- 2) Torkaman G., Taheri H., Azizi E.; The effects of I- in scar tissue remodeling 11th physiology and pharmacology congress; 1992; Tabriz; Iran.
- 3) Torkaman G., Taheri H., Azizi E.; Iodine iontophoresis for releasing of tendon adhesion; Iranian students congress of India; 1992; India.
- 4) Efthkhar hosseini A., Torkaman G., Etiology, early detection, prevention and treatment of pressure sores: A Review; The first annual seminar of spinal cord center; 1992; Tehran; Iran.
- 5) Azimi S., Jabalameli M., Torkaman G.; The comparative study of concentric and eccentric exercise of quadriceps muscle with Isokinetic system; 8th physical therapy congress; 1997; Tehran; Iran.
- 6) Torkaman G., Fallah A., Sharafi A.A., Katoozian H.R., Eftekhar Hosseini A., Design a Skin indentor system to produce controlled pressure sores in experimental animals: Biomechanic congress; 1998; Tehran; Iran.
- 7) Karimi H., Shaterzadeh M.J., Torkaman G., Siahtiri N.; The effect of maximum muscle effort on the knee proprioception in 20-30 year girls; 10th physical thrapy congress; 1999; Tehran; Iran.
- 8) Okhovvatian F., Hosseini Khameneh, Torkaman G., Sarmadi A.R.; The comparative study of cardiovascular parameters in spinal cord injury during walking with three kinds of crutches; 10th physical therapy congress; 1999; Tehran; Iran.
- 9) Hamed H., Firoozabadi S.M.P., Torkaman G., Faghizadeh S.; The effect of percutaneous lumbar stimultion on the H-reflex parameters; 7th Iranian conference on electrical Engineering; 1999; pp: 1-8; Tehran; Iran.
- 10) Torkaman G., Sharafi A.A., Katoozian H.R., Fallah A., Faghizadeh S.; Study of Pressure

- sore biomechanics in Guinea Pig; 9th congress of biomedical engineering; 2000; pp: 285-289; Tehran; Iran.
- 11) Torkaman G., Sharafi A.A., Katoozian H.R., Mofeed M.; study of Pressure, Shearing Force and Friction on the Production of pressure sores. 9th Congress of biomedical engineering; 2000; pp: 280-284; Tehran; Iran.
 - 12) Ghiasi S., Torkaman G., Hajizadeh s., Sharafi A.A., Fahihzadeh s.; Comparative study of pulsed ultrasound (1MHz) and ascorbic acid in treatment of pressure sore in guinea Pig; 9th conference of biomedical; 2000; pp: 471-475; Tehran; Iran.
 - 13) Saeedi N., Firoozabadi S.M.P., Torkaman G., Kazemnejad A.; 9th conference of Biomedical Engineering; 2000; pp: 515-519; Tehran; Iran.
 - 14) Hamedi H., Firoozabadi S.M.P., Torkaman G., Faghihzadeh S., The effect of percutaneous Lumbar stimulation on the H-reflex parameters; European Medical and Biological Engineering coference (EMBEC); Austeria; pp: 722-723.
 - 15) Ebrahimi F., Firoozabadi S.M.P., Torkaman G.; The comparision of H-reflex parameter in electrical stimulation of vertebral column and periferal; 3rd ICBME; Oct. 2000; Bled-Slovenia; pp: 219-220.
 - 16) Saeedi N., Firoozabadi S.M.P., Torkaman G., Kazemnejad A.; The effect of tripolar percutaneous Lumbar stimulation on the H-reflex recruitment curves; 3rd ICBME; Oct. 2000; Bled-Slovenia; pp: 221-222.
 - 17) Pakzad M., Firoozabadi S.M.P., Torkaman G.; The effect of superficial electrical stimulation on the motor units tibialis anterior muscle on the H-reflex parameters of soleus muscle; 4th congress of Medical physics; 2000; p: 64; Tehran; Iran.
 - 18) Torkaman G., Sharafi A.A., Fallah A., Katoozian H.R., Mofeed M.; Biomechanical and histological studies of experiment pressure sores in guinea Pig; 4th congress of Medical physics; 2000; pp: 217-225; Tehran; Iran.
 - 19) Torkaman G., Sharafi A.A., Fallah A., Katoozian H.R., Blood biochemical changes following external force application in Guinea Pig; the first Iranian Congress of Biochemistry and Biophysics; 2000; p: 27; Tehran. Iran.
 - 20) Torkaman G., Sharafi A.A., Fallah A., Katoozian H.R.; Biomechanical and histological studies of experimental pressure sore in guinea Pig; ICBME; Dec. 2000; Singapour; pp: 463-469.
 - 21) Goljarian S., Firoozabadi S.M.P., Torkaman G.; The comparision of Bi-polar and Tri-polar TENS on H-reflex and Mh wave recruitment curve; 10th Iranian conference of Biomedical Engineering; 2001; pp: Tehran; Iran.
 - 22) Navid A., Torkaman G., Firoozabadi S.M.P.; Study of H-reflex recruitment curve after desensitized of vertebral column skin; 5th congress of Medical Physics; 2002; pp: 75-76; Tehran; Iran.
 - 23) Ghiasi S., Torkaman G., Hajizadeh S., Sharafi A.A., Faghihzadeh S.,: Study of Acid-Ascorbic Phonophoresis in treatment of pressure sore; 5th Congress of Medical physics; 2002; pp: 81-82; Tehran; Iran.
 - 24) Goljarian S., Firoozabadi S.M.P., Torkaman G.; The effects of bi-polar and tri-polar TENS on H-reflex and Mh wave recruitment curve; EMBEC; Dec. 2002; Austeria; pp: 1326-7.
 - 25) Mehmandoust F.,Torkaman G., Firoozabadi S.M.P.;Study the effect of the cathodic & anodic electrical stimulation on wound healing in the skin of Guinea Pig;16th Iranian Physiology and Pharmacology Congress;2003;p:321;Tehran Iran.
 - 26) Ravanbod R.,Torkaman G., Nadali F.;Effect of ergometric exercise on F VIII coagulation activity in patient with hemophilia-A; 16th Iranian Physiology and Pharmacology Congress;2003;p:349;Tehran Iran.
 - 27) Navid A., Torkaman G.,Firoozabadi S.M.P.;Study of H-reflex signal recruitment curve after

- tripolar TENS on vertebral column desensitized skin; 16th Iranian Physiology and Pharmacology Congress;2003;p133;Tehran Iran.
- 28) Kordi Yoosefi Nejad A., Torkaman G.,Firoozabadi S.M.P.;Study of H-reflex recruitment curve of soleus muscle after application of vibration on bulk and tendon on it; 16th Iranian Physiology and Pharmacology Congress;2003;p:120;Tehran Iran.
- 29) Sarmadi A.R., Firoozabadi S.M.P., Torkaman G., Fathollahi Y.;Assessing information of soleus and gastrocnemius motor unit H-reflex response to paired stimulation, 16th Iranian Physiology and Pharmacology Congress;2003;p:103;Tehran Iran
- 30) Goudarzi I., A.R., Hajizadeh S, Firoozabadi S.M.P., Fathollahi Y., Torkaman G., Ghaderi Pakdell F.,;Effect of extremely low frequency pulsed electromagnetic fields on wound healing in the skin of diabetic Rats; 16th Iranian Physiology and Pharmacology Congress;2003;p:324;Tehran Iran.
- 31) Ravanbod R.,Torkaman G.,Baghaipoor M.R., Nadali F.;Effect of ergometric exercise on factor VIII coagulant activity in patients with mild and moderate hemophilia-A; International Society on Thrombosis and Haemostasis;12-18 July 2003,CD026, Birmingham,UK.
- 32) Mehandoust F.,Torkaman G., Firoozabadi S.M.P.;Study the effect of the cathodal & anododal electrical stimulation(I.D.C.) on the skin wound healing ;World Congress on Medical Physics &Biomedical Engineering ;August 24-29;2003;Sydney;Australia.
- 33) Kordi Yoosefi Nejad A., Torkaman G.,Firoozabadi S.M.P.;Study of recruitment curve of H-reflex signal after application of vibration on bulk and tendon of soleus muscle; World Congress on Medical Physics &Biomedical Engineering ;August 24-29;2003;Sydney;Australia..
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- 39) Rezaeian Z. , Torkaman ., Nadali F., Ravanbod R., Goushe B., Nejatian M., Broumand M.A. Effect of Aerobic Training in Healthy Young man Coagulant Activity Contributes to atherosclerosis.7th national congress on cardiovascular update; 2005; Tehran;Iran.
- 40) Karimi H.,Abbasi E.,Torkaman G.,Faghizadeh S. Comparision of the success Rate of Professional football player's goal shooting before and after fatigue;The 8th Asian Federation of Sports Medicine Congress ;2005; Tokyo.
- 41) Niknami Sh., Karimzadeh Shirazi K., Torkaman G. Improving physical activity through a TTM-Based health education intervention;Sport Psychology ; 15-19August 2005; Sydney ;Australia.
- 42) Simorgh L., Torkaman G., Firouzabadi S.M.P. Effect of surface tripolar TENS of vertebral column on the soleus and gastrocnemious muscles; 17th Iranian congress of physiology and pharmacology; 2005; Kerman; Iran.
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- 44) Yousefi Diba A.A.,Mokhtari Dizaji M.,Larijani B.,Salehnia M.,Torkaman G The effect of Low level Laser Therapy (30 mW and 830nm) on bone repair. 12th Iranian Conference on Biomedical engineering ;2005;pp:991-996;Tabriz;Iran.
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- 46) Talebi Gh.,Karbasi V.,TorkamanG.,Firoozabadi M.Design and study of reliability the skin surface difrential potansiometer; The 8th Congress on Physical Medicine,Rehabilitation and Electrodiagnosis;2005; pp. 52-53 , Tehran, Iran.
- 47) Jamshidi F., Torkaman G., Firoozabadi S.M.P.,Study of the Cathodal and Anodal Electrical Stimulation (I.D.C.) on the Pressure sore (type II) Wound Healing in guinea pig. The 8th Congress on Physical Medicine,Rehabilitation and Electrodiagnosis;2005; p. 22 , Tehran, Iran.
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- 54) Jamshidi F,Torkaman G,Firoozabadi SMP.The effect of cathodal and anodal electrical stimulation on the biomechanical prperties of pressure sore in guinea pig.5th Congress of Biomechanics,Munich,Germany,29 July-4 August,2006.
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- 56) Ravanbod R, Torkaman G ., Kahrizi S., Goushe B., Rezaeian Z. Nejatian M.Improvment of sympathetic-vagal after exercise training.15th congress of iranian heart association;31 Oct-3Nov 2006;Tehran;Iran.
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- 58) Habibi M,Torkaman G,Nejatian M. The effect of ressistance and endurance training on the haemostatic and inflammatory factors on the heart disease. 15th congress of iranian heart association;31 Oct-3Nov 2006;Tehran;Iran.
- 59) Naghii MR,Torkaman G, Mofid M.Effects of Boron and Calcium Supplementation on

Mechanical properties of Bone in Rats. First congress of Rare Elements.11-12

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62) Kamali F, Torkaman G, Bayat M, Ebrahimi E, Salavati M. Biomechanical evaluation of the effect of low level laser therapy on repair of osteochondral effects in rabbit knee. 13th ICBME2007, 21-22Feb, Tehran, Iran, p: 61.

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65) Sadraee H., Kaka Gh.R.,Mofid M, Rezaei Y, Karimi Zarchi AA,Torkaman G.,et al. Histomorphometrical and immunohistochemical study of callus formation of tibia after exposure of low intensity of pulsed ultrasound in rabbit. 18th congress of Physiology and Pharmacology. 2007: 71, Mashhad, Iran.

66) Jahangard T, Torkaman G, Dibaj A, Gousheh B, Hedayati M. The effect of short-term aerobic exercise on tPA, PAI and vWF antigens in postmenopausal women. 19th Iranian Congress of Physical Therapy, Tehran, IRAN.

67) Roya Ravanbod, Giti Torkaman, Ali Estaki. Help the joint biomechanics. XXVIII International Congress of the World federation of Hemophilia, 2008, Istanbul, Turkish.

68) Jahangard T, Torkaman G, Gousheh B, Dibaj A. The effect of short-term aerobic exercise on coagulative and fibrinolytic factors in postmenopausal women. 6th International Congress on Physical Education and Sport Sciences, 4-6 March 2008, Kish, Iran.

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70 Mokhtari Dizaji M,Youse.-Diba A, Larijani B, Salehnia M, Torkaman G, Dadras MR, Hamidi Z, Adibi H, Kazemnejad A. The effect of Low Level Laser therapy on bone repair: Ultrasound study. 6th International Congress on Physical Education and Sport Sciences, 4-6 March 2008, Kish, Iran.

71) Talebi G, Torkaman G, Firoozabadi M, Mofid M, Shariat Sh. Externally applied electricity for influencing on injury potential, mechanical and histological characterization of wound. 16th Congress of the European Society of Biomechanics; July 6th-9th, 2008, Lucerne, Switzerland.

72) Moghimi S, Miran Beygi M, Torkaman G, Mahloojifar A. Color Calibration for the analysis of wound images. 15 th Iranian Conference on Optics and Photonics and 1st Iranian Conference on Photonic Engineering; 27-9 January 2009, Esfahan, I.R. Iran.

73) Jahangard T, Torkaman G, Goosheh B, Hedayati M. The effect of short term aerobic exercise on coagulation, fibrinolytic factors and lipid profiles in postmenopausal women. 3th Iran-Arab Cardiovascular Congress; 12-15 March 2009, Kish, IRAN.

74) Ravanbod R, Torkaman G, Goosheh B, Hedayati M, Fallahi F. Inflammatory Cytokines and Atherosclerosis. 3th Iran-Arab Cardiovascular Congress; 12-15 March 2009, Kish, IRAN.

- 75) Moghimi S, Miran Beygi M, Torkaman G, Mahloojifar A. Studing the generation of pressure sores in guinea pigs through modeling and using high frequency ultrasound. 3ed International on Modeling, Simulation and Applied Optimization, January 20-2, 2009 Sharjah, UAE.
- 76) Goljarian S, Torkaman G, Firoozabadi M, Sarmadi AR. The effect of renshow cell activity on the fast and slow twitch motor units by H response recording. 21st Physical Therapy Congress, Tehran, Iran.
- 77) Asadi MR, Torkaman G, Hedayati M. The effect of sensory and motor intensity of electrical stimulation on the biomechanical parameters of full thickness skin wound. 21st Physical Therapy Congress, Tehran, Iran.
- 78) Asadi MR, Torkaman g, Hedayati M. The effect of electrical stimulation intensity on VEGF expression and biomechanical properties during wound. International Congress of Biomedical Engineering, 28-30 Sep 2010, Amsterdam, Netherland.
- 79) Hoseini Sanati M, Torkaman G, Hedayati M, Mohktari Dizji M. Injury potential and VEGF expression of skin full-thickness wound after irradiation of Ga-As and He-Ne lasers. Laser in Medicine National Congress, 16-18 Feb 2011, Tehran Iran.
- 80) Roghani T, Torkaman G, Gousheh B, Movaseghi Sh. Improvement of cardiovascular fitness in postmenopausal women after weighted vest aerobic training. 5th Middle East Cardiovascular Congress, 23-25 Feb 2011, Kish Island, Iran.
- 81) Ravanbod R, Torkaman G, Esteki A. The effect of pulsed ultrasound therapy on the improvement of joint friction in heamarthrosis model. XXIIIrd Congress of the International Society of Biomechanics July 3-7, 2011, Brussels, Belgium.
- 82) Rezaeian Z, Torkaman G, Esteki A, Sabagheian A, Ravanbod R. Short-term effect of ACLT on knee joint biomechanics. 19th annual meeting of EORS, September 1-2 2011, Vienna, Austria.

X. RESEARCH PROJECT LEADER:

- 1) Study of mechanical force Parameters cause Pressure sores comparison of electrical and ultrasonic modalities on repair it.
- 2) The effect of static/cyclic and repetitive normal pressure on the induced ischemia and biomechanical properties of tissue in guinea Pig.
- 3) The effect of electromechanical stimulation on the skin wound healing.
- 4) Effect of ergometric training on coagulant activity of VIII in healthy young men.

XI. RESEARCH STUDENTS SUPERVISED:

- 1) Comparative study of pulsed ultrasound (1MHz) and ascorbic acid in treatment of pressure sore in guinea Pig. Sedigheh Ghiaci, MSc, (1999).
- 2) Study of H-reflex signal recruitment curve after tripolar TENS on the vertebral column desensitized skin. Arezu Navid, MSC, (2002).
- 3) Effect of ergometric exercise on F-VIII Coagulation activity in patients with hemophilia-A. Roya Ravanbod, MSc, (2002).
- 4) Study of recruitment curve of H-reflex signal after application of vibration on bulk and tendon of soleus muscle. Amin Kordi Yoosefi Nejad, MSc, (2002).
- 5) The Study of catodic and anodic electrical stimulation (I.D.C.) effect on wound healing in guineapig. Fereshteh Mehmandoust, MSc, (2002).
- 6) Study the concomitant effect of topical anesthesia and cold on the recruitment curve

- parameters of H-reflex.Hosein Salehi, MSc, (2005)
- 7) The aerobic training on FVIII coagulant activity in healthy youngmen. Zahra- Sadat Rezaeian, MSc, (2005).
 - 8) Effect of surface tripolar TENS of vertebral column on the soleus and gastrocnemious muscles. Leila Simorgh, MSc, (2005).
 - 9) The effect of cathodal and anodal electrical stimulation(IDC) on healig of pressure ulcers in guinea pig. Fateme Jamshidi, MSc, (2005)
 - 10) Study of relation between wound electrical potential, micro-amperage direct current(DC) and wound healing characteristics. Ghadam Ali Talebi, PhD, (2007).
 - 11) The effect of short term aerobic exercises on coagulative and fibrinolytic factors in postmenopausal women.Jahangard Tahereh , Msc, (2008).
 - 12) The effects of aerobic and combined aerobic-resistance exercise on fibrinolytic and coagulation factors in healthy young sedentary men. Mehrdad Habibi,MSc, (2008).
 - 13) The effect of sensory & motor intensities of catodal current on injury potential , tensile strength of tissue and releasing of vascular endothelial growth factor. Mohammad Reza Asadi, MSc (2010).
 - 14) The effect of pulsed ultrasound and Ga-Al-As LLLT on inflammation suppression and increasing mechanical functionality of the rabbit knee experimental haemarthrosis. Roya Ravanbod, PhD (2010).
 - 15) Effect Of low level laser therapy with 632.8nm (He_Ne)&904 nm (Ga_Ar) On injury potential ,releasing of vascular endothelial growth factor & tensile strength in full thickness wounded Rat skin. Mahsa Hosseini, MSc(2010).
 - 16) Comparision of effect of 6 weeks aerobic treadmill exercise with and without external loading on NTX and BALP and balance in postmenopausal women with primary moderate osteoporosis.Tayebeh Roghani, 2011.
 - 17) Studing & comparing the effect of the 1MHz pulsed US wave & Ga-Al-As 810nm low level laser to improve the cartilage biomechanical properties & knee joint complex coefficient of friction in rabbit experimental OA. Zahra Rezaeian, PhD, 2011.
 - 18) Comparison of The effect of 6 weeks resistance training and pulsed eleceteromagnetic field stimulation on NTX, B –ALP and balance in primary postmenopausal osteoprotic women.Nima Rezaee,, MSc, 2011.
 - 19) Comarison of the effect of 6 week resistance training and combined resistance training with pulsed electromagnetic stimulation on N-terminal telopeptid of type I collagen(NTX), Bone-specific alkaline phosphatase(B-ALP) and balance in osteoporotic severe haemophilia A. Behrouz parhampour, MSc, 2012.

XII. RESEARCH STUDENTS CO-SUPERVISED:

- 1) The Comparative study of concentric and eccentric exercise of quadriceps muscle with Isokinetic system. Saeed Azimi, MSc, (1997).
- 2) The effect of percutaneous Lumbar stimulation on the H-reflex parameters. Hossein Hamed, MSc, (1998).
- 3) The comparative study of cardiovascular parameters in spinal cord injury during walking with three kinds of crutches. Alireza Sarmadi, MSc, (1999).
- 4) The effect of superficial electrical stimulation of the motor units of tibialis anterior muscle on

- the H-reflex parameters of soleus muscle. Mohammad Pakzad, MSc, (1999).
- 5) The effect of maximum effort on the knee proprioception in 20-30 years old girls. Nasrin Siahtiri, MSc,(1999).
 - 6) The comparision of the H-reflex parameters of soleus muscle in two methods of surface electrical stimulation of vertebral column and peripheral neural fibers. Fatemeh Ebrahimi, MSc, (2000).
 - 7) The study of H-reflex and Mh wave recruitment curves befor and after percutaneous lumbar spine stimulation. Narges Saeedi, MSc, (2000).
 - 8) Effect of clinical application of cold on Knee Joint position sense in the uninjured population. Mehdi Haji Mohammadi, MSc, (2000).
 - 9) Study of heat and cold using on the muscle recovery after fatigue. Majid Mokhtari Vayeghan, MSc, (2000).
 - 10) Comparison of the effect of bi-polar and tri-polar Tens on H-reflex and Mh wave recruitment curve. Sakineh Goljarian, MSc, (2002).
 - 11) An evaluation of surgical wound healing by consecutive in vivo measurement of epidermis electrical resistance in comparison with other conventional methods. Saeed Behabadi, MSc, (2003).
 - 12) Effect of fatigue on body balance in intact non-trained person. Zeinab Vasheghani Farahani, MSc, (2004).
 - 13) Comparison of goal shooting in professional football players before and after fatigue;Ebrahim Abassi, MSc, (2004).
 - 14) The comparative study of fractal parameters in human H-reflex after bipolar and tripolar TENS. Amirosein Kazerani, MSc, (2004).
 - 15) The effects of strength training of the ankle muscles on balance. Afshine Rahbari, MSc, (2004).
 - 16) The effect of vertebral column tripolar TENS with various intensity on soleus and gastrocnemius H-reflex and Mh wave recruitmentcurve. Alireza Sarmadi, PhD, (2004).
 - 17) Quantitative evaluation of controlled cyclic mechanical stimulation in repair of rabbit tibia diaphysis. Azadeh Shadmehr, PhD, (2005).
 - 18) The effect of TENS on pain and quality of life in osteoarthritis. Kamal Salehi, MSc, (2005).
 - 19) Study of invasive and non invasive measuring of injury potential through wound healing in guinea pig. Vahideh Karbasi, MSc (2005).
 - 20) The effect of GaAlAs laser therapy (30 mW) on bone repair in rabbit:Densitometry and ultrasounography. Aliasghar Yousefi Diba, MSc(2005).
 - 21) A home-based transtheoretical change model designed strength traning intervention to increase exercise to prevent osteoprosis in Iranian women aged 40-65 years. Karimzadeh, PhD(2006).
 - 22) Study of low power pulsed ultra sound waves on the biomechanical properties of bone healing in rabbit. Behzad Yasrebi, PhD, (2007).
 - 23) Effect of low back proprioception on static standing balance and torques of lower limb joints during pregnancy and post delivery. Sedighe Sadat Naimi, PhD, (2007).
 - 24) Evaluation of low level laser therapy for repair of osteochondral defects in the rabbit knee. A morpho-hystological and biomechanical study. Fahimeh Kamali, PhD, (2007).
 - 25) Study of functional training and in chronic nonspecific lumbar pain. Noredin Karimi, PhD (2008).
 - 26) Assessment of pressure sore generation and healing through fusion of the information obtained from high frequency ultrasound sonography and optic imaging, Sahar Moghimi, PhD, 2010.

- 27) The effect of different fatty acids, nutrients, and whole body vibration on the bone histomorphometrics, bone mechanical properties and metabolic parameters in Rat. Soheila Salmasi, MSc, 1390.
- 28) The effect of nutrients (Ca, vitamine D, and Boron) and fluoride on the bone histomorphometrics and bone mechanical properties in Rat. Zahra Golavar, MSc, 1390.
- 29) Study of motoneurons recruitment curve of gastrosoleus muscle after taping on the desensitized skin of lower leg. Rasool Bagheri, MSc, 1390.

XIII. COURSES TAUGHT:

- 1) Tissue Biomechanics
- 2) Electrotherapy
- 3) Electromyography
- 4) Work Physiology
- 5) Ultrasound (Therapy)
- 6) Seminars (M.Sc. and Ph. D.).