

RESUME

I. PERSONAL INFORMATION

Name: Sedighe kahrizi

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II. EDUCATIONAL RECORDS

Degree	<u>Institution</u>	<u>Field</u>	<u>Date</u>
B. Sc	Iran university of Medical Sciences Science School	Physical Therapy	1984-1988
M. Sc	Tarbiat University	Modares Physical Therapy	1988-1991
Ph.D.	Tarbiat University	Modares Physical Therapy (Branch: Spine Biomechanics)	1998-2003
Summer School in Ethic in Medical Science	Shiraz University of Medical Sciences		August 2017

III. ACADEMIC EXPERIENCE

Assistant Professor, Tarbiat Modares University, Tehran. Iran (Since 2008)

Associate Professor, Tarbiat modares university, Tehran Iran (since 2016-until Now).

IV. RESEARCH INTERESTS:

- 1-Biomechanics of Work (Ergonomic) concentrate on Lumbar Spine
- 2-Motor controls of patients with low back pain
- 3- Lumbar Posture
- 4- Therapeutic Exercise (new protocol) in Non- specific Low Back Patients
- 5- Brain Plasticity in Low Back Pain

V. INVENTIONS

1-Portable Electronic Lordosimeter (1991)

2- Mechanical Pelvic inclinometer (1991)

3- Producer and controller of unstable mechanical load (2013)

VI. HONORS AND AWARDS

Winner of Kharazmi prize for invention and a commendation letter from president of Iran, 1991.

A commendation letter from minister of science, research and technology as distinguished student, 1992.

A commendation letter from president of university, as outstanding student, 1992.

A commendation letter from undersecretary, as distinguished woman researcher, 1993.

A commendation letter from president of university as distinguished Lecturer. 1994.

A commendation letter from president of university as distinguished researcher, 2004

A commendation letter from president of university as distinguished inventor, 2017.

VII. MEMBERSHIP OF ASSOCIATIONS

1- Member of ISPRM (The International Society of Physical and Rehabilitation Medicine).

2- Member of Iranian physical Therapy Association.

3- Member of European Society of Biomechanics

VIII. COURSES TAUGHT:

- Occupational Biomechanics (Ph .D students)
- Manual Therapy (Ph .D students)
- Sport physiology (post graduate)
- Evidence- based Physical Therapy (post graduate)
- Biomechanics of musculoskeletal Injuries (post graduate)
- Kinesiology Electromyography (Practical) (post graduate)
- Kinesiology (B.S)

IX. EXECUTIVE EXPERIENCE

Head of Physiotherapy :19 May 2012 - 19 May 2014.

X. PUBLICATIONS:

1. Theses:

Ph. D.: Biomechanical evaluation of the effects of external load, trunk and knee position on the internal loads, trunk muscles recruitment and lumbar curve under static condition.

M. Sc.: Designed and implemented apparatus: Pelvic tilt meter, computerized lordosimeter, portable electrical lordosimeter, for evaluation of vertebral curves and pelvic tilt and produce new angles, indexes and mathematical relation between them, for evaluation posture and vertebral curves.

B. Sc.: Evaluation of proprioceptive neuromuscular facilitation (P. N. F) techniques.

2. Research Publications:

- 1- Okhovatian F, Kahrizi S, Ala'oddole A. Pejouhandeh, "Effect of Lower Limb FNS and Change in Body Posture on the Cardiovascular Response of Paraplegics during Upper Limb Ergonomic" ,Vol. 2 (4): 17-26, 1998.
- 2- Okhovatian F, Kahrizi S, Samadipour A " Comparison Between Three Common Remedial Exercise in Pain Severity of Patients with Mechanical CLBP" , Journal of Rehabilitation,Vol. 4 4(13):7-15, 2003.
- 3- Kahrizi S, Parnianpour M, Firoozabadi SM, Karimi H, Kazemnejad A."The Muscle Estimated Profiles and Biomechanical Model Agreed on the Estimated Level on Low Back as a Function of Characteristics of Holding Task", .Daneshvar,Vol 11(49),2004.
- 4-Samadipour A, Okhovatian F, Kahrizi S,Role of lumbopelvic geometry in chronic mechanical low back pain. . Pejouhandeh, Vol. 9 (2):109-116, 2004.
- 5- Kahrizi S, Parnianpour M, Firoozabadi SM, Karimi H, Kazemnejad A."To Examine the Effects of External Load, Trunk and Knee Position on Eight-Trunk Muscles Activity", Iranian Journal of Medical Physics,Vol.1(5):59-68,2004.
- 6- Kahlaee A.H., Kahrizi S., Parnianpour M. and Firoozabadi M., " Evaluation of the effect of lumbar posture and load magnitude on trunk muscles activities" , ABSTRACT • Journal of Biomechanics, Volume 39, Supplement 1, 2006, Page S103
- 7- Kahrizi S, Parnianpour M, Firoozabadi SM, , Kazemnejad A Karimi E."Evaluation of Spinal Internal Loads and Lumbar Curvature under Holding Static Load at Different Trunk and Knee Positions", Pakistan Journal of Biological Science,10 (7):1036-1043,2007.
- 8- Ershar N., Kahrizi S, Firoozabadi S.M., Faghihzade S., "Evaluation of Electrical Activity of Trunk Muscles in chronic Low Back Pain Female Patients" , Kowsar Medical Journal,Vol.12(1):59-68,2007.
- 9- Ershar N.,Kahrizi S, Firoozabadi S.M, Faghihzade S. " The Effects of external Load and Trunk Posture on the Electromyographic Activity of Trunk Muscles in Healthy females",Journal of Army University of Medical Science,Vol. 5(1): 1093-1099,2007.
- 10- Ershar N.,Kahrizi S, Firoozabadi S.M, Faghihzade S. " Evaluation of Lumbar Posture in Low Back Pain Patients",Journal of Biomechanics, S601,2007.
- 11-. Mohammadi J.,Kahrizi S., Ebrahimi E. , Faghihzadeh S."The comparison of effect of short duration usage of soft and rigid neoprene knee sleeves on knee position sense following A.C.L-Reconstructions" Journal of The Faculty of Physical Education and Sport Science, Vol. 26: 119-134,2007.
- 12- Ershar N.,Kahrizi S.M, Faghihzade S" The Effects of external Load and Trunk Posture on the lumbar curve in lumbar lordosis inclination under static condition" ,Biquarterly Journal of Rehabilitation Science,Vol3 (5): 31-39,2007.
- 13- Ershar N.,Kahrizi S, Firoozabadi S.M, Faghihzade S" Balance and posture in low back pain patients" Journal of Rehabilitation Science,Vol. 3(1): 28-34,2007.
- 14- Karimi N., Ebrahimi I.,Kahrizi S.,Torkaman G."Evaluation of postural e using the biodex balance system in subjects with and without low back pain. ", Pak J Med Sci, 24 (3):372-377,2008.
- 15- Ershar N.,Kahrizi S, Firoozabadi S.M, Faghihzade S" The Effects of external Load and Trunk Posture on the lumbar curve in low back females patients" ,Journal of Rehabilitation Science,Vol 4,28-34, 2008.
- 16-Karimi N., Ebrahimi I., Kahrizi S., Torkaman G." Reliability of postural balance evaluation using the biodex balance system in subjects with and without low back pain , JPMI, 22(2): 95-101 ,2008.

- 17- Karimi N., Ebrahimi I, Ezzati K.,Kahrizi S.,Torkaman G.,Arab A.”The effects of consecutive supervised stability training on postural balance in patients with chronic low back pain”,Pak J Med Sci, 25 (2):177-181,2009.
- 18-Sedghi B., Kahrizi S., Zakeri H., Omidfar K., Rahmani M., “Evaluation of acute hormonal responses to concentric, eccentric and concentric-eccentric muscle actions in healthy young men. “Physiology and Pharmacology, 13 (2), 216 – 228,2009.
- 19- Ershar N.,Kahrizi S, Firoozabadi S.M, Faghihzade S., Evaluation of trunk muscle activity in chronic low back pain patients and healthy individuals during holding loads, J Back Musculoskeletal Rehabilitation 22 :165-172,2009.
- 20-Hedayati R., Kahrizi S.,Parnianpour M.,Bahrami F., Kazemnejad A., Mobini B.,” Variability of anticipatory posture adjustments after performing stabilization exercises in recurrent nonspecific low back pain patients” Modares Journal of Medical Science:Pathology,Vol 13(2):51-61.2010.
- 21-Hedayati R., Kahrizi S., Parnianpour M., Bahrami F., Kazemnejad A., Mobini B.. “Comparison of Recurrent Non-specific Low Back Pain Patients and Healthy Subjects in Variability of Anticipatory Postural Adjustments”, journal of Rehabilitation, 11 (3) :58-65 ,2010.
- 22-Rezaee Sh.,Kahrizi S., Hedayati M.” Comparison of AcuteHormonal Responses between Resistance, Endurance and Endurance- Resistance Exercise in Healthy Young Men.”,Physiology and Pharmacology,14(4),445-457,Winter 2011.
- 23- Ershad, N. , Kahrizi S.,, Parnianpour M., Azghani M., Kazem Nejad A.; "Reliability of postural stability in males with and without non specific low back pain during holding dynamic load",Journal of Research in Rehabilitation Sciences,volume ,8(1):1-10, 2012.
- 24-Mokhtarnia H., Kahrizi S.,Parnianpour M., Sanjari M.,“Test- retest reliability of coordination and movement pattern stability measures during repetitive trunk bending in healthy and non specific low back pain groups”, Razi Journal of Medical Sciences,. 19(94):10-19, Mar-Apr 2012.
- 25- Neda Ershad ,Sedighe Kahrizi ,Mohamad Parnian Pour,Mahmud Reza Azghani,Anoushiravan Kazemnejad,"Evaluation of postural stability while holding dynamic load innonspecific low back pain patients.Razi Journal of Medical Sciences Vol. 19, No. 98, pp: 28-36,Jul-Aug 2012.
- 26-Leila Simorgh,Gity Torkaman,Seyed Mohammad Firoozabadi , Sedighe Kharizi:Effects of short-term training with WBV on the electromyography activity of the soleus and gastrocnemius muscles in healthy young women. Biquarterly journal of Rehabilitation Sciences,volume 8,(2):402-410,2012.

27-Yaghoobi Z, Kahrizi S, Parnianpour, Ebrahimi Takamjani E, FaghihZade S. The Short Effects of Two Spinal Stabilization Exercise on Balance Tests and Limit of Stability in Men with Non-Specific Chronic Low Back Pain: Randomized Clinical Trial. *Journal of Rehabilitation*, Vol. 13 (1), Spring 2012.

28- Bervis S., Kahrizi S, Parnianpour M, Bahrami F, Kazemnejad A, Mobini B” Evaluation of postural stability while holding variable dynamic load in asymmetric postures in healthy men subjects”, *Razi Journal of Medical Sciences* Vol. 19, No. 105, Feb-Mar 2013.

29-Hedayati R, Kahrizi S, Parnianpour M, Bahrami F, Kazemnejad A, Mobini B.” The study of the variability of anticipatory postural adjustments in patients with recurrent non-specific low back pain”, *J Back Musculoskeletal Rehabilitation* 9 July 2013.

30-Leila Simorgh, Giti Torkaman, Sayed Mohamad Firouzabadi, Sedigheh Kahrizi, Mohsen Naji “Short-term effects of whole-body vibration training on neuromuscular activity of muscles in important area in respect of osteoporotic fractures in maximal voluntary isometric contraction in young healthy women”, *Research in Rehabilitation Science*, 9(3), September 2013.

31-Noureddin Karimi ; Ismael Ebrahimi; Sedighe Kahrizi ; Gity Torkaman “Reliability of postural balance evaluation using the biodex balance system in subjects with and without low back pain”, *Journal of postgraduate Medical Institute*, 22(2):95-101, 2008.

32-Mahnaz Kheirkhah ; Sedigheh Kahrizi ; Mohammad Parnianpour; Masoud Mazaheri, “The effect of changes of lumbar posture on postural balance in chronic LBP patients while applying axial load” *Razi Journal of Medical Sciences* Vol. 20, No. 108, May-June 2013.

33- Mokhtarnia H., Kahrizi S., Parnianpour M., Sanjari M,” Test-Retest Reliability of Dynamic Postural Stability Measures in Healthy and Chronic Non Specific Low Back Test- Pain Groups” *Journal of Rehabilitation*, Vol. 13(4), 2013.

34-Rezaee SH. Kahrizi S. , Hedayati M." Hormonal responses of combining endurance-resistance exercise in healthy young men". *J Sport Med Phys Fitness* ,4 (54):244-51, 2014.

35-Hedayati R, Kahrizi S, Parnianpour M, Bahrami F, Kazemnejad A, Mobini B.” The study of the variability of anticipatory postural adjustments in patients with recurrent non-specific low back pain”, *J Back Musculoskeletal Rehabilitation* 25 :33-40, 2014

36-Mirakhorlo M Azghani MR, Kahrizi S Validation of a musculoskeletal model of lifting and its application for biomechanical evaluation of lifting techniques. *J Res Health Sci*. 2014;14(1):23-8

- 37- Yaghoubi Z. , Kahrizi S.,Parnianpour M., Faghihzadeh S.Short effects of two common stabilization exercise on back and abdominal muscle recruitment and lumbar curvature in non-specific chronic low back pain patients: a crossover clinical trial study.. Koomesh ,2014, 15 (4): 511 – 521.
- 38-Seyed Hoseinpoor T., Kahrizi S., Bahram Mobini B,EMG activity of trunk muscles in patients with chronic low back pain after fatigue,Canadian Journal of Basic and applied Science,2(1):1-9 ,2014
- 39- Seyed Hoseinpoor T., Kahrizi S., Bahram Mobini B., A comparison of abdominal muscles thickness changes after a lifting task in subjects with and without low back pain, Journal of Human factors and Ergonomic Society 57(2): 208-217, March 2015.
- 40-Seyed Hoseinpoor T., Kahrizi S., Bahram Mobini B., Trunk extensor muscle fatigue influences trunk muscle activities, Journal of Work , 51 (2015) 793–797.
- 41-Morteza Ahmadi, Giti Torkaman , Sedigheh Kahrizi , Mojdeh Ghabaee, Comparison of the immediate and short term (12 sessions) effects of whole body vibration on the spinal motor neurons excitability in healthy young men, Journal of Modern Rehabilitation,Volume 8(4),2014.
- 42-Mohajeri Tehrani MR, Tajvidi M, Kahrizi S, Hedayati M," Does endurance training affect igf-1/igfbp-3 and insulin sensitivity in patients with type 2 diabetes?" J Sports Med Phys Fitness. 55 (9): 1004-12, 2015 .
- 43- Rozita Hedayati , Sedighe Kahrizi, Mohammad Parnianpour , Fariba Bahrami , Anushiravan Kazemnejad and Bahram Mobini ."Stabilization Exercises and their effect on Fear-Avoidance Belief and Disability in Patients with Recurrent Nonspecific Low Back Pain." Koomesh Autumn 2015, 17 (1): 142 - 151
- 44-Hamid Reza Mokhtarinia, Mohammad Ali Sanjari,Mahshid Chehrehrazi , Sedigheh Kahrizi, Mohamad Parnianpour Trunk coordination in healthy and chronic nonspecific low back subjects during repetitive flexion–extension tasks: Effects of movement asymmetry, velocity and load, Human Movement Science 45 (2016) 182–192.
- 45- Hosseinpour Shoja-abad sh.,Kahrizi S., Soltanian A., Razi M. Do the two groups of the patients with acute anterior cruciate ligament Injury (potential copers and non-coper) differ in knee muscle strength and postural balance? Razi Journal of Medical Sciences Vol. 22, No. 136, Sep-Oct 2015.
- 46-Ahmadi M, Torkaman G, Kahrizi S, Ghabaee M, Arani LD, Does the Acute and Short-Term Effect of Whole Body Vibration is the Same on the H-reflex Recruitment Curve and Agility? Journal of Sport Rehabilitation, 2016, 25, 348 -356.

- 47- Vahid Samadi; Sedighe Kahrizi; Mahmood Reza Azghani, Parviz Azadfallah; Mohammad Gholami-Fesharaki" Effects of load and unstable support surface on postural control in patients with chronic low back pain" *Koomesh*, Spring 2016, 17 (3): 580-588.
- 48- Kahrizi S. , Mirzae F. , Mokhtari Dizaji M.; A Comparison of Automatic and Voluntary Contractions in subjects with and without Low Back Pain.*IJMPP*.2016;1(3):131-136.
- 49- Abassi E., Kahrizi S., Razi M., Faghihzadeh S.," The effects of whole body vibration therapy on pain , range of motion and functional activities in patients with osteoarthritis of the knee. *Journal of Medical Council of Iran*,34(2):125-137,Summer 2016.
- 50- Mohammadjannataj Z.,Kahrizi S., Bayat N., Correlation of Strength and Change in the Thickness of Back Extensor Muscles during Maximal Isometric Contraction in Healthy and Osteoporotic Postmenopausal Women. *Journal of Modern Rehabilitation* 2016; 10(2): 61-66.
- 51- Niknam H., Esteki A.,Salavati M.,and Kahrizi S." Reliability of Zebris Motion Analysis System in Healthy Athletes and Athletes with Anterior Cruciate Ligament Reconstruction, *Asian J Sports Med*. 2017 March; 8(1):1-9.
52. Saleh Naseri S. Kahrizi S. Plantar Flexor Muscles Asymmetry and Their Lower Strength Is Maybe Related to Development of Low Back Pain during Prolonged Standing, *Journal of Clinical Physiotherapy Research*, 2017;2(3): 133-138.
- 53- Maryam Zolghadr M., Kahrizi S., Soltanian A.,Lateral Abdominal Muscles Asymmetry in Female Patients With Chronic Non Specific Unilateral Low Back Pain Practicing Hollowing Exercises, *Journal of Modern Rehabilitation*, April 2017, Volume 11(2):133-139.
- 54- Abbasi E., Kahrizi S., Mohammad Razi M., Faghihzadeh S. "The effect of whole-body vibration training on the lower extremity muscles' electromyographic activities in patients with knee osteoarthritis, *Medical Journal of The Islamic Republic of Iran (MJIRI)*,2017 ,IN PRESS.
- 55-Mokhtarinia HR, Kahrizi S, Sanjari MA and Parnianpour M."Reliability of COP Measures in Healthy and Low Back Pain Subjects During a Dynamic Task".*Ergonomics Int J* 2017, 1(5): 000129.
- 56- Kooroshfar N., Kahrizi S." Comparing Knee Joint Position Sense in Patellofemoral Pain and Healthy Futsal Women",*JRSR* 1 (2017) 15-19.
- 57-Norouzi S. Tavafian S., Kahrizi S.Design and Evaluation of Measurement Tool for Sitting Situation Using Validity and Reliability , *International Journal of Musculoskeletal Pain Prevention* ,Volume 3, Issue 2, Spring 2018 Pages: 1-5 .

XI. LIST OF PAPERS PRESENTED IN CONGRESS AND SEMINARS.

- 1- Kahrizi S., Eftekhar Hosseini S. A., "The design and implementation of computerized lordosimeter and portable electrical lordosimeter." International Conference of Engineering Application of Mechanics, Sharif University of Technology, Tehran/Irahn, June, 9-12, 1992.
- 2- Kahrizi S., Eftekhar Hosseini S. A., "Validity of a noninvasive technique for evaluation of lumbar curve." XIth World Congress of the International Federation of Physical Medicine and Rehabilitation, Dresden/Germany, Sept., 16-2, 1992.
- 3- Kahrizi S., Eftekhar Hosseini S. A., "Validity of a noninvasive technique for evaluation of lumbar curve." 4th Physical Therapy Congress, 21-23 May 1992.
- 4- Kahrizi S., Eftekhar Hosseini S. A., "Presentation of new procedures of measurements and new indexes and angles for evaluation of vertebral column curvatures. The second Iranian Congress of Medical Physics and 6th Biomedical Engineering Seminar, Tabriz University, Tabriz/Iran, 30 July-2 August, 1993.
- 5- Kahrizi S., Niroomanesh Sh., "Noninvasive methods for prevention of musculoskeletal disorders in pregnancy and postpartum", The Second Iranian Seminar of Physical Education and Sport and their Role in Healthy, October 1993.
- 6- Kahrizi S., Eftekhar Hosseini S. A., "New index and angles for measurement of vertebral column curvatures and its deformities", Seventh World Congress of the International Rehabilitation Medicine Association, Washington DC/USA, April, 9-16, 1994.
- 7- Kahrizi S., Eftekhar Hosseini S. A., "Introducing new designed and Implemented pelvic tiltmeter. A device for the non invasive assessment of pelvic tilt". 12th World Congress IFPMR, Sydney/Australia, March, 27-31, 1995.
- 8- Kahrizi S., Eftekhar Hosseini S. R., "X, α , β , γ , λ angles and index -A roentgenographic method for describe of lordotic curves deformities". World Confederation for Physical Therapy, Washington DC/USA, June, 25-30, 1995.
- 9- Kahrizi S., Eftekhar Hosseini S. A., "New Index to describe of lordotic curves", The 8th World congress of the international Rehabilitation Medicine Association, Kyoto/Japan, 31 Aug - 4 Sept., 1997.
- 10- Ghainzadeh N, Kahrizi S., "The effect of two static stretching programs on hamstring muscles flexibility of non-Athlete females". 6th Annual Congress of the European College of Sport Sciences, Cologne, Germany. 24-28, July, 2001.
- 11- Ghainzadeh N, Kahrizi S., "Studing the persistence of the flexibility in dominant and nondominant limb alternative stretching exercise" 12th Physiotherapy Congress of Iran, Tehran, 8-10, May, 2001.
- 12- Asgari T, Kahrizi S., "Comparison and evaluation of proprioception of ACL tear and reconstruction", The fifth Iranian Congress of Medical Physics, Tehran, 19-20, 2002.
- 13- Asgari T., Kahrizi S., "Evaluation of proprioception of patients and healthy subjects. 13th Physiotherapy Congress of Iran, Tehran, 21-23 May, 2002.
- 14- Kahrizi S., "Segmental Stabilization", 3th Spine Seminar of Iran, Tehran, 3-4 March, 2002.
- 15- Samadipour A, Okhovatian F, Kahrizi S., "Comparison between lumbar stabilization exercise and common remedial exercise in spinal geometry and pain score and Vo2

max of nurses with chronic mechanical low back pain,16th International Congress of Physiology & Pharmacology Tehran ,9-13 May,2003.

16- Samadipour A, Okhovatian F, Kahrizi S. ,” Comparison between lumbar stabilization exercise and common remedial exercise in spinal geometry and pain score and fatiguability of back muscles of nurses subjects with chronic mechanical low back pain,14th Congress of Physiotherapy, Tehran ,13-15 May,2003.

17-Kahrizi S.“Biomechanical comparison of lifting techniques”. 4th Spine Seminar of Iran,Tehran,2-3 December,2003.

18-Almaee Nejad F. ,Ebrahimi E. ,Kahrizi S. ,”Comparison of Back Extensor Endurance & Dynamic Lumbar Stability in MLBP & Health Subjects after Specific Abdominal Exercise”, 5th Spine Seminar of Iran,Tehran,2-3 December,2004.

19- Samadipour A, Okhovatian F, Kahrizi S. ”Consider the efficacy of dynamic stabilization exercise on lumbopelvic geometry in CLBP”,5th Mediterranean Congress of Physical and Rehabilitation Medicine,30 September-4 October,2004,Antalya-Turkey.

20- Samadipour A, Okhovatian F, Kahrizi S. ”Consider the efficacy of dynamic stabilization exercise on paravertebral fatiguability in CLBP”,5th Mediterranean Congress of Physical and Rehabilitation Medicine,30 September-4 October,2004,Antalya-Turkey.

21- Kahrizi S, Parnianpour M, Firoozabadi SM, Karimi H, Kasemnejad A,” Evaluation of the effect of external load, trunk and knee position on the trunk muscles recruitment and lumbar curve under static condition,” 5th World Congress on Low Back and Pelvic Pain ,Australia ,10-13 November,2004.

22- Kahrizi S, Parnianpour M, Firoozabadi SM, Kasemnejad A,”The effet of Load, Trunk and Knee Position on Lumbar on Lumbar Spine Biomechanics” The First International Congress of Minimally Interventional Spinal Treatment , Tehran –IRAN ,May 2005.

23-Almaee Nejad F., Ebrahimi E., Kahrizi S. ,” Back Extensor or Endurance & Dynamic Lumbar Stability in MLBP & Health Subjects”,The First International Congress of Minimally Interventional Spinal Treatment , Tehran –IRAN ,May 2005.

24- Kahrizi S, Parnianpour M, Firoozabadi SM, Kasemnejad A,”The effets of External Load, Trunk and Knee Position On The Trunk Muscles Activity, ”13th Nordic Baltic Conference Biomechanical Engineering and Medical Physics,Umea-Sweden,13-17 june ,2005.

25-Samadipour A, Okhovatian F, Kahrizi S .”Geometry of lumbopelvic area in low back pain patients”,Annual Meeting of the Iranian Orthopaedic Association, Tehran-Iran,8-11 November 2005.

26-Kahlaee A.M., Kahrizi S, Parnianpour M, Firoozabadi SM,”Interaction effect ofLumbar Posture and Load magnitude on Trunk Muscles Activity,8th Iranian Congress of Physical Medicine,Rehabilitation and Electrodiagnosis”, Tehran-Iran ,24-25 November 2005.

27-Kahlaee A.M., Kahrizi S, ”Motor control of pain mechanisem”,6th Seminar in Specific Spinal Physical Therapy, Tehran, IRAN,28-29 December,2005.

Iranian Congress of Physical Medicine,Rehabilitation and Electrodiagnosis”, Tehran-Iran ,24-25 November 2005.

28- Kahrizi S, Parnianpour M, Firoozabadi SM, Kasemnejad A." The effects of External Load, Trunk and Knee Position On The Internal loads and lumbar curve under static condition" , ”Emirates Physiotherapy Conference,29 April-1 May 2006,Dubai-UAE.

- 29- - Kahlaee A.M., Kahrizi S, Parnianpour M, Firoozabadi SM "Evaluation of The effect of Lumbar Posture and Load Magnitude on Trunk Muscles activities",5th World Congress of Biomechanics,Munich,Germany,29July-August 2006.
- 30- Kahlaee A.M., Kahrizi S, Parnianpour M, Firoozabadi SM."Effective Factors on Trunk Muscles Activity while Lifting",First Biennials Conference Physical Therapy in Musculoskeletal Impairment, Tehran ,IRAN ,7-8 November 2006.
- 31- Ershad N., Kahrizi S., Faghihzade S., Evaluation of Lumbar Curvature of Low Back Pain Subjects while Holding External Load",7th Seminar in Specific Spinal Physical Therapy, Tehran, IRAN,27-28 December,2006.
- 32- Ershad N., Kahrizi S., "Balance of low back pain",7th Seminar in Specific Spinal Physical Therapy, Tehran, IRAN,27-28 December,2006.
- 33-Ershad N., Kahrizi S., Firooz Abadi M.,Faghihzade S.," Evaluation of External Load and Trunk Posture on Electrical Activity of Healthy female Subjects"9th Iranian Conference of Physical Medicine, Rehabilitation and Electrodiagnosis", Tehran-Iran ,28 Febuary-1 March 2007.
- 34-Ershad N., Kahrizi S., Firooz Abadi M.,Faghihzade S.," Comparison of Electrical Signal of trunk Muscle between Chronic Low Back Pain patients and Healthy Subjects During Holding Load,"13th Iranian Conference on Biomedical Engineering,Tehran,IRAN,21-22 February,2007.
- 35- Ershad N.,Kahrizi S, Firoozabadi S.M, Faghihzade S. " Evaluation of Lumbar Posture in Low Back Pain Patients",XXI Congress of International Society of Biomechanics, Taiwan,1-5 July ,2007.
- 36-Mohammadi J., Kahrizi S., Ebrahimi E., Faghihzade S." The evaluation of Knee Position Sense Following A.C.L-Reconstruction under the Effects of Short Duration Usage of Short and Rigid Neoprene Knee Sleeves",18th Iranian Congress of Physiology & Pharmacology ,Mashad-IRAN August 26-30,2007 .
- 37- Niksepehr M., Kahrizi S.,_, Ebrahimi E., Faghihzadeh S., " Cardiovascular Responses to Stabilization Exercise Training in patients with non- specific chronic low back pain",8th Seminar in Specific Spinal Physical Therapy, Tehran, IRAN,27-28 December,2007.
- 38- Niksepehr M., Kahrizi S.,_, Ebrahimi E., Faghihzadeh S., Al-maee Nejad F." Cardiovascular Responses to two types of sit-up exercise, in patients with non- specific chronic low back pain", 19th Congress of Physical Therapy , Tehran ,13-15 May,2008.
- 39-7-Kahlaee A.H., Kahrizi S., Parnianpour M. and Firoozabadi M., Role of lumbar posture and load magnitude on trunk muscles activities ,First International Congress on Ergonomics, Tehran-IRAN7-8 May 2008.
- 40- Ershad N., Kahrizi S.,Faghihzade S., Evaluation of external load and Trunk Position on Lumbar Curve in Low Back Pain Patients. , First International Congress on Ergonomics, Tehran-IRAN 7-8 May 2008.
- 41- Niksepehr M., Kahrizi S.,_, Ebrahimi E., Faghihzadeh S." Cardiovascular Responses to 4 weeks stabilization training, in patients with chronic low back pain",11th Asia Federationof Sports Medicine Congress.,Tehran –IRAN ,7-9 October 2008.
- 41-Ahmadi M., Kahrizi S.,_" comparison of effect of cold and passive recovery on fatigue and improving goal shooting in professional basketball players",11th Asia Federationof Sports Medicine Congress.,Tehran –IRAN ,7-9 October 2008.

- 42-Yaghoobi Z., Kahrizi S."Evaluation of non-specific chronic low back pain and new classification system of Sullivan" ,9th Seminar in Specific Spinal Physical Therapy, Tehran, IRAN,25-26 December,2008.
- 43- Niksepehr M., Kahrizi S., Faghihzadeh S." Cardiovascular Responses of sit-up exercise in patients with non-specific chronic low back pain" ,3thIran-Arab(Middle East)cardiovascular congress,Kish-Iran,12-15 March 2009.
- 44-Naji M., Firoozabadi S.M.P., Kahrizi S."Discrimination Power of Surface Electromyogram Features of Eight Trunk Muscles by Davies-Bouldin Index", The 6th International Workshop on Biosignal Interpretation,24-26 June 2009,CT,USA.
- 45- Koroshfard N., Alizade M.,Kahrizi S.,"Effect of patellar taping on pain and dynamic postural control in futsal women with patellofemoral pain syndrome" 7th, International Congress on Physical Education and Sport Science ,March 2010, Tehran-Iran.
- 46-Hedayati R., Kahrizi S., Parniasnpour M., Bahrami F.,Kazemnegad A., Mobini B. , "The Study of the Variability of Anticipatory Postural Adjustments in Recurrent Non-specific LBP Patients",World Academy of Science Engineering and Technology,September, Amsterdam,2010.
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- 51- Samadi V., Kahrizi S. Role of Fear of pain in chronicity of pain in Low Back Pain subjects15th, Seminar in Specific Spinal Physical Therapy 24-25 Dec., 2014, Tehran-Iran.
- 52-Zeinab Mohammadjannataj Kahrizi S., Effect of Hyper Kyphotic on Back Extensor Muscle strength in Postmenopausal Osteoporotic Women, , M.Sc. of physical therapy, 15th, Seminar in Specific Spinal Physical Therapy 24-25 Dec., 2014, Tehran-Iran.
- 53- Samadi V., Kahrizi S. Evaluation of cognitive tasks while holding an unstable load in male subjects with nonspecific chronic low back. 15th, Seminar in Specific Spinal Physical Therapy 24-25 Dec., 2014, Tehran-Iran.
- 54- Herasi M., Kahrizi S. Hoviattalab M. Evaluation and comparison of trunk muscle activity during two different exercises with oscillating flexible pole in healthy female subjects ,26th Iranian Annual Physiotherapy Congress, April22-24 2015,Tehran.

55- Zeinab Mohammadjannataj Kahrizi S., Effect of Hyper Kyphotic on Falling and Quality of Life in Postmenopausal Osteoporotic Women, M.Sc. of physical therapy, 26th Iranian Annual Physiotherapy Congress, April 22-24 2015, Tehran.

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61 -Naraghi F. Kahrizi S. Evaluation of multifidus atrophy on limit of stability in healthy subjects, 17th Seminar in Specific Spinal Physical Therapy, 28-29 Dec. 2016, Tehran IRAN.

62- Kahrizi S. Ethic in Knee Osteoarthritis, National Congress of Osteoarthritis from Research to Practice, Isfahan University of Medical Science, 20-22 september 2017, Isfahan-IRAN.

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64- Kahrizi S. "Braib Placticity in Low Back Pain", 19th Seminar in Specific Spinal Physical Therapy, University of social welfare and rehabilitation sciences, 26-27 2018, Tehran-IRAN.

XII-RESEARCH STUDENTS SUPERVISED

1-The effect of external load and trunk posture on muscle activity in chronic low back pain under static condition, Ershad Neda, M Sc. of physical therapy, (2006).

2-Simultaneous effect of external load and lumbar curvature on trunk muscles activities during static lifting tasks in healthy male subjects, Kahlaee Amir Hossein, M.Sc of physical therapy., (2006).

- 3- The comparison of the effect of short duration usage of soft and rigid neoprene sleeves on knee position sense following ACL-reconstruction, Mohammadi Jamshid ,M.Sc. of physical therapy (2006).
- 4- Evaluation of the acute hormonal responses to concentric, eccentric and concentric-eccentric muscle action in healthy subjects Behnam Sedghi , M.Sc. of physical therapy, (2008) .
- 5- Cardiovascular responses to spinal stabilization exercises in patients with non-specific chronic low back pain, before and after stabilization exercise training. Mohammad Niksepehr ,M.Sc. of physical therapy, (2008).
- 6-Comparison of influence of single session stabilization techniques on spinal muscle recruitment and stability indexes in chronic low back pain patients while performing static holding tasks. Zahra Yaghobi M.Sc of physical therapy,(2010)
- 7- The comparative study of the variability of trunk muscle responses and its correlation with fear –avoidance belief and disability and effect of stability exercise on it in recurrent nonspecific low back pain patients and healthy subjects. Rosita Hedayati, Ph.D of physical therapy (2010).
- 8- Comparison of Acute Hormonal Responses between Resistance, Endurance and Endurance- Resistance Exercise In Healthy Young Men. Shoeib Rezaee M.Sc. of physical therapy (2010)
- 9-Changes in automatic and volitionally activation of abdominal muscles following functional training .Mirzaee M.Sc. of physical therapy (2011)
- 10- The effects of changes of lumbar lordosis on postural balance in chronic LBP patients during applying axial load. Mahnaz KheirKhah, M.Sc. of physical therapy (2011).
- 11-The effect of velocity, movement asymmetry and external load on dynamic postural stability and intersegmental coordination in nonspecific low back pain and healthy subjects. Hamidreza Mokhtari Nia , Ph.D of physical therapy (2012)
- 12-Evaluation of muscle response and postural stability while holding variable dynamic loading asymmetric postures in nonspecific low back pain patients. Soha Bervis. M.Sc. of physical therapy (2012).
- 13-Study of six weeks Endurance Training on the IGF-1, IGFBP-3 and Insulin Sensitivity in 40-50 yrs Men with Type 2 Diabetes. Masoumeh Tajvidi, M.Sc. of physical therapy,(2012).
- 14-Evaluation of Muscle Response and Postural Stability while Holding Variable Dynamic Load in Subjects with and without Nonspecific Low Back Pain. Neda Ershad, Ph.D of physical therapy (2012)

15-Modeling Mechanism of lifting forces with stable and unstable loading and performance analysis. Mojtaba Mirakhorlo .Mechanical Engineering. M.Sc. of Biomedical Engineering (2012).

16-The Effects of trunk extensor muscle fatigue on the abdominal muscle pattern and their thickness in chronic low back pain in a static holding task. Seyede Tahere Seyed Hoseinpoor Azizi, M.Sc. of physical therapy (2013).

17-Evaluation of the relation between pain side and abdominal muscles thickness symmetry in non-specific low back pain during abdominal hollowing exercises. . Maryam Zolghadr, M.Sc. of physical therapy,(2013).

18- The acute effect of whole body vibration on muscle strength and Postural Stability in anterior cruciate ligament injury and Postural Stability in anterior cruciate ligament injury: copers versus noncopers.Shahram Hosseinpour,M.Sc. of physical therapy,(2014).

19- Comparison The Changes of Back Extensor Muscle Thickness During Functional Task in Normal and Hyper Kyphotic Postmenopausal Osteoporotic Women, Zeinab Mohammadjannataj Aghamahali, M.Sc. of physical therapy,(2015).

20- Evaluation and comparison of trunk muscles activity during two different exercise with flexible pole in young females with and without non-specific low back pain. Mona Herasi, M.Sc. of physical therapy,(2015).

21- Effects of pain-related fear and cognitive task on trunk muscle activation and postural control during holding an unstable load in male patients with nonspecific chronic low back pain Vahid Samadi; Ph.D of physical therapy (2016).

22- The Effects of Whole Body Vibration Therapy on Pain , Knee Range of Motion, Functional Activities, Electromyography Activity of the Muscles of the Lower Limbs and Postural Stability of Patients with Knee Osteoarthritis. Ebrahim Abasi ,Ph.D of physical therapy (2016).

22-Evaluation and Comparison of Postural control, thickness multifidus thickness in nonspecific low back pain and healthy subjects after Prolonged standing. Saleh Naseri M.Sc. of physical therapy,(2017).

23- The comparison of postural control in chronic unilateral low back pain subjects with and without atrophy of lumbar multifidus muscle during contralateral arm lifting (CAL). Fateme Naraqji M.Sc. of physical therapy,(2017).

24- Study of Six Treatment Sessions of "Combined Lumbar Sustained natural Apophyseal Glides(SNAG)_Stabilization Exercise on Pain, Disability, range of Motion and Postural Control in Patients with Non Specific Low Back Pain: A Randomized Controlled Trial. Mehrnoosh Danaeifar, M.Sc. of physical therapy,(2018).

25- The Relation Between Lumbar Paraspinal Muscle And Lateral Abdominal Muscle During Holding Load In Low Back Pain With Normal Lordosis and Hyperlordotic. Sara Tajilrou, M.Sc. of physical therapy,(2018).

26- Comparison 4 weeks of exercise with flexible pole in two directions horizontal and sagittal on the dynamic and static balance , maximum voluntary contraction of trunk muscles and disability in men with chronic low back pain. Jafar Farhadnezhad, M.Sc. of physical therapy,(2018).

XIII- RESEARCH STUDENTS CO-SUPERVISED

1- Effect of Lower Limb FNS and Change in Body Posture on the Cardiovascular Response of Paraplegics during Upper Limb Ergonomic, Ala'oddole Ahmad ,M.Sc., of Physical Therapy (1997).

2- The effect of two static stretching programs on hamstring muscles flexibility range of nonathlete girl students, Ghanizadeh Narmin, M.Sc. of Sport injury and corrective exercise.(1999) .

3-Comparison of perception of joint position sense among three group: healthy subjects, ACL-tear subjects and ACL-reconstruction, Asgari Tahereh, M.Sc. of Physical Therapy (2001).

4-Comparison between lumbar stabilization exercises and common remedial exercises in lumbar geometry, pain score and Vo2 max of nurses with chronic mechanical low back pain, Ali Samadi-pour ,M.Sc of Physical Therapy (2002)

5-The evaluation of relationship between dynamic lumbar stability and back extensor endurance time in healthy subjects and subjects with chronic low back pain before and after abdominal hollowing exercises, Almaee –nejad, M.Sc. of Physical Therapy,(2003)

6-Evaluation of postural balance using the Biodex balance system in subjects with and without low back pain, Karimi Nouredin,Ph.D. of Physical Therapy (2008).

7- Comparing patellar taping on dynamic postural control and pain of women athletes with patellofemoral pain syndrome and healthy athletes, Negar koroshfard M.Sc of Sport injury and corrective exercise.(2009).

8-Discrimination Power of Surface Electromyogram Features of Eight Trunk Muscles By Davies –Bolden Index . Mohsen Naji M.Sc. of Biomedical Engineering(2009).

9-Modeling Mechanism of lifting forces with stable and unstable loading and performance analysis. 10-Mirakhorlo Mojtaba Mechanical Engineering(2011).

Forearms muscle acoustic features extraction from radio-frequency ultrasound for assessing muscle strength.Milad Atarzadeh, M.Sc of Biomedical Engineering 2012.

11- Effects of short –term WBV on the H-reflex recruitment curve and peak torque of soleus muscle in healthy people .Ahmadi M. Ph.D. of Physical Therapy (2014).

12- Relationship between Kinematic Features of Gait and Functional Abilities With and Without Cognitive Loading in ACL-Reconstructed Subjects. Hoda Niknam, Ph.D. of Physical Therapy (2017).