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Publications Template

#	Research Title	Field		Abstract		Year of Publication Publishing	Publishing Link "URL"
1	<u>Combined low-</u> <u>intensity laser</u> <u>therapy and</u> <u>hyperbaric</u> <u>oxygen therapy</u> <u>on healing of</u> <u>chronic diabetic</u> <u>foot ulcers: a</u> <u>controlled</u> <u>randomized trial</u>	Basic Sciences in Physical therapy	Purpose: This investigation was condu- laser therapy (LLLT) photo-bio modu (HBOT) on healing of prolonged diab- hundred patients with chronic diabetic 65 years. The patients were assigned a received conventionalwound care only power output was1440 mW with follo 670 nm 10mW, 8 x 880 nm 25 mW, 8 was adjusted for 4 J/cm2 with pulse fir minutes for 3 times perweek day after under 2.5 ATA delivered for 60 minu- per week for6 successive weeks. Com and HBOT. All groups received stand Measurements for ulcersurface area (I (UV) by volumetric method were perf fourth- and sixth-weeks post treatmen was statistically significant reduction Combined groups (P-value= 001 and U USA, there were nsignificant differen sixth weeks(P-value= 0.01 for all mea- weresubstantial variations post- 2, 4, a 0.0001 respectively). Multiple compar- differences in-between the experimen- between LLLT does not accelerate the	alation (PBM) and hyper betic foot ulcers.Patient c foot ulcers (DFU); the randomly into four group y, LLLT group receive owing wavelengths: 5 x 8 x 950nm 15mW and c requency of 10 KHZ, e r day. HBOT group rec tes per sessionfor 30 set abined group received c lard wound care in additional USA) by transparent m formed beforestarting t in USA and UV in the 0.0001 in all groups rea- tes among groups in the asurements). Regarding and 6-weeks tests (P-va rison in-between group tal groups.Conclusion:	erbaric oxygen therapy is and Methods: One eir ages ranged from40- ups. Control group id GaAlAs diode laser, its a 850 nm 200 mW, 12 x energy density(flounce) each session lasted 8 reived 100%pure oxygen essions with 5 sessions combination of bothLLLT ition to their program. The study, in the second, test revealed that there LLLT,HBOT and spectively). Regarding the second, fourth, and gulcer volume, there alue= 0.01, 0.0001, and os showedinsignificant The combination therapy to DFU more than and	2024	https://www.rese archgate.net/publ ication/37876951 <u>8</u>
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			LLLT or HBOT alone.Keywords: low-level laser therapy, Photo bio modulation, Hyperbaric oxygentherapy, Diabetic chronic ulcers.						
2	Effects of different aerobic exercise protocols on regional body fatness and serum lipids in women with obesity: a randomized trial	Basic Sciences in Physical therapy	Aim. This study aimed to compare the effects of high-volume high-intensity interval training (HV-HIIT), low-volume high-intensity interval training (LV-HIIT), and moderate-intensity continuous training (MICT) on regional body fatness and serum lipids in adult obese women. Methods. Forty-six women with obesity and dyslipidemia completed this study. They were randomly allocated to HV-HIIT protocol (n = 15), LV-HIIT protocol (n = 14), and MICT protocol (n = 17). The protocols were performed three days a week for eight weeks. Measurements included body mass index (BMI), waist circumference (WC), sub-total fat, leg fat, trunk fat, arm fat, lean mass, fat-free mass, and bone mineral content via DXA, self-paced maximal cycle test for HRmax determination, and serum lipids (TC, HDL, LDL, TG). Results. HV-HIIT led to significantly greater improvements in HRmax, body fat measures, TC, and HDL compared to the other protocols (p < 0.05). Both LV-HIIT and MICT were effective in reducing TC, but LV-HIIT showed better results for improving HDL (p < 0.05). Conclusion. HV-HIIT was the most effective for reducing body fat and improving TC and HDL, while LV-HIIT was superior to MICT in improving HDL.	2024	DOI: https://doi. org/10.56984/8Z G020AYN5				

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 Influence of postural stability training versus neck stabilization exersices on balance in patients with forward head posture 	Basic Sciences in Physical therapy	Introduction Research has confirmed cause a displacement of the body's backward. This can create a signific sustaining injuries. Due to compose forward. As a result, FHP can not of disrupt balance. Aim of study the purpose of study we training versus stabilization head and head posture. Methods This study involved 60 yet cranio-vertebral angle) Subjects were divided into 3 group treatment plus postural stability tra- day after day. Group B were given conventional weeks, day after day. Group C were given conventional stability training and neck stabilizate Results comparison between the thr revealed that the superiority of group there was superiority of group B on superiority of group C on group A if Furthermore, there was superiority Conclusions According to the exter stability exercise in addition to improving biodex measurement, C	center of gravity, causi cant ergonomic hazard, in ensatory upper body dr inly lead to neck pain bur as to find out the impact d neck exercise balance i oung adults with severe f s (A, B and C). Group A tining using biodex bala treatment plus neck sta al treatment plus neck sta al treatment plus comb tion exercise. ree groups reveled the fir up A on group B in both group A in CVA. In add n OS, MLS, CVA, and F of group C on group B in nt and results of the stu- conventional treatment	ng the upper body to lean ncreasing the likelihood of ift, both hips usually tilt t also create back pain and of biodex postural stability in individuals with forward forward head posture (<46 A were given conventional nce system for six weeks, abilization exercise for six bination between postural ndings of these study APS, MLS, and, while, dition, there were ROF. n all variables except CVA dy, it was determined that were more effective in MLS, APS, and ROF.	2024	Medical journal of Cairo Univ.				
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			Key words Mechanical neck pain; Ex	cercise; posture stability	y, biodex , CVA			
4	Influence of Cardiorespirator y Fitness on Walking Performance in Chronic Hemiplegic Patients with Myocardial Infarction	Basic Sciences in Physical therapy	Background: Concurrence of chronic serious in clinical scenarios. The purp cardiorespiratory fitness (CRF) on way patients with myocardial infarction. M (more than 6 months) with myocardia years. Patients were assigned into two (treadmill training for 5 minutes befor performed for 25 minutes) in addition 25 minutes (relaxation technique, fac proprioceptive neuromuscular facilitat each exercise), and control group (B) program only for 60 minutes (12 min each group was 60 minutes, three tim assessed pre-and post-12 weeks treath Bruce protocol) and the 10-meters way 50% to 80% Maximum heart rate. Re significant decrease in resting heart ra blood pressure, and maximum diastol and 0.006 respectively) and significant oxygen consumption, and 10-meters way respectively) in favor of group (A). C	bose: was to determine alking performance in of Methodology: Forty chr al infarction, of both ge o groups: study group (re and after calisthenic n to the traditional phys ilitatory technique, stre ation and trunk control : received the traditional utes for each exercise). hes per week for 12 wee ment through the stress alking tests. The exercise sults: The in-between of ate, maximum heart rate lic blood picture (P-value= conclusion: The CRF in	the influence of chronic hemiplegic conic hemiplegic patients enders, aged from 40 to 50 A): received the CRF exercise which was sical therapy program for etching exercise, training; 5 minutes for al physical therapy The treatment session for eks. Patients were exercise test (modified se intensity ranged from comparisons showed e, maximum systolic ue= 0.0001, 0.008, 0.002, c equivalent, maximum 0.001, 0.031, and 0.001 mproved walking	2022	DOI: 10.31838/ijpr/20 21.13.02.051	
5	Maze Control Training on Kinesthetic Awareness in Patients with Stroke: A	Basic Sciences in Physical therapy	 Objective: To determine the influence of adding maze control training to the selected conventional physical therapy on kinesthetic awareness in patients with chronic stroke. Methods: Thirty adult patients of both genders with chronic cerebral stroke were assigned to control and experimental groups randomly: the control group (A) received 			2022	DOI: 10.1155/20 22/5063492	
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	Randomized Controlled Trial.							
			Results: There were significant dec groups ($p \le 0.001$ in all measures), s proprioception in 30° and 75° in the respectively). The in-between group corresponding to both the sway inde difference in 75° ($p \le 0.001$).	significant improvement e experimental group (<i>p</i> v ps' comparison showed s	s of the knee value = 0.016 and ≤ 0.001 , ignificant differences			
6	Effect of Visual Biofeedback Training on Postural Instability in Chronic Stroke Patients:A Controlled Randomized Trial	Basic Sciences in Physical therapy	Background: Stroke affects postural survivors. Postural stability is essent for stroke patients still a challenge be sensory function. Objectives: To det on postural instability in chronic stro- participated in the concurrent study. (group A; study group; received vise traditional physical therapy rehability received the selected traditional physical for measuring postural stability (over indices). Results: There were signifi- anterior/posterior, and medial-lateral measurements). Percentages of impu-	Conclusion: Adding maze control training to the selected conventional physical herapy improved the kinesthetic awareness in patients with chronic stroke. Background: Stroke affects postural stability in approximately 85% of stroke urvivors. Postural stability is essential for limb functions. Postural stability training for stroke patients still a challenge because of poor recovery of both motor and ensory function. Objectives: To determine the effect of visual biofeedback training on postural instability in chronic stroke patients. Method: 56 hemiplegic patients barticipated in the concurrent study. They were randomly assigned into two groups group A; study group; received visual biofeedback training in addition to the selected raditional physical therapy rehabilitation program and group B; control group; eccived the selected traditional physical therapy rehabilitation program only). The batients underwent pre-and post-treatment assessment using Biodex balance system for measuring postural stability (overall, anterior/posterior and medial/lateral stability, nterior/posterior, and medial-lateral indices within both groups (P=0.0001 for all neasurements). Percentages of improvement of group A were higher than group B in II measurements (54.55%, 54.72%, 52.60%, 40.33%, 36.25%, and 30.14%,			DOI: 10.31838/ijpr/20 21.13.02.273	
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			therapy program is more beneficial stroke patients.	to improve the postural i	instability in chronic			
7	Influence of Sensory Integration Training on Sensory Motor Functions in Patients with Thalamic Syndrome.	Basic Sciences in Physical therapy	Introduction Thalamic stroke causes changes in perception lead to pain a study was to investigate the influence posture stability in patients with that both sexes, aged 45–65 years, diagra allocated into 2 groups. The control conventional physical therapy progra integration training with the Biodex therapy program. Results The intra- statistically insignificant differences (forward and backward), and medice treatment in the control group (p -v 0.847, respectively). In the study gr in pain and improvement in overall, mediolateral (right and left) limits of pain and 0.000 for each of the 5 lim group comparisons showed statistic group (p = 0.000). Conclusions Ad effective to decrease pain and impro- syndrome.	nd deteriorate postural s ce of sensory integration lamic syndrome. Method losed with a thalamic stra- group received selected ram and the study group Balance System beside group comparisons with s in pain, as well as overa- lateral (right and left) lir alue of 0.180, 0.301, 0.7 oup, there was a statistic anteroposterior (forward f stability after the treatr it of stability variables, r ally significant difference ding the sensory integrat	tability. The goal of this training on pain and ds Overall, 30 patients of oke were randomly sensory training of the received sensory the conventional physical MANOVA revealed all, anteroposterior mits of stability after the 792, 0.247, 0.381, and ally significant decrease d and backward), and nent (p -value of 0.01 for respectively). The inter- tes in favour of the study ion training program was atients with thalamic	2022	DOI: 10.5114/pq.2021. 108675	
8	Influence of a smartphone use on dynamic balance inhealthy adolescents.	Basic Sciences in Physical therapy	Purpose The aim of the study was to detect the immediate and late effects of using a smartphone for 30 consecutive minutes on dynamic balance in healthy adolescents. Methods Overall, 96 healthy adolescents of both genders, aged 15–18 years, were randomly assigned to the study and the control group. The subjects in the study group used a smartphone for 30 consecutive minutes; smartphones were not allowed in the control group. A Biodex system was used to assess the dynamic balance initially, as well as immediately after and 1 hour after the intervention. Results MANOVA test revealed that there were statistically significant differences in the overall stability		2022	DOI: 10.5114/hm.202 1.106171		
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PHAROS UNIVERSITY امعه فاروبر الاسکندرية ALEXANDRIA حامعة فاروس index and anteroposterior stability index (p = 0.002 and 0.04, respectively), with a statistically insignificant difference in the mediolateral stability index (p = 0.46) within the study group. Significant differences were observed in the immediate measurements of both overall stability index and anteroposterior stability index (p =0.0001 and 0.03, respectively), while statistically insignificant differences were noted in the measurements of mediolateral stability index between the groups. Conclusions The dynamic balance decreased after 30 consecutive minutes of smartphone use, so care should be taken to avoid accidents while walking or performing other daily activities. This effect, however, disappeared 1 hour later. Background: Diabetic peripheral neuropathy progresses with decreased nerve functionality both sensory and motor, leads to high morbidity, mortality, and worsening of the quality of life of patients and their caregivers. Subjects and methods: 42 patients, suffered from diabetic peripheral neuropathy (DPN), assigned randomly into group A (the study group) received 10 sessions of hyperbaric oxygen therapy, Influence Of breathing 100% of pure oxygen for 60 minutes under 2.5 ATA, in addition to the Hyperbaric traditional medical treatment, and group B (the control group) received the traditional DOI: medical treatment only. Sensory and motor distal latencies, amplitudes, and nerve Oxygen Therapy conduction velocities were evaluated at the beginning and after two weeks of the 10.31838/ijpr/20 on Sensorimotor Basic 2022 Sciences study for the sural and peroneal nerves using electromyography (EMG), and patients Functions in 21.13.01.705 Diabetic answered the Arabic Michigan Neuropathy Questionnaire (MNQ) for DPN. Results: 9 in Peripheral Physical The within-group comparisons of the distal latencies showed insignificant decrease in all motor latencies and sensory latencies in group B, while significant decrease of all Neuropathy: A therapy sensory latencies in group A and only the sensory latencies of left side in group B (Pcontrolled value= 0.16, 0.32, 0.1, 0.17, 0.004, 0.006, 0.008, and 0.006 in group A, while 0.83, randomized trial. 0.88, 0.12, 0.84, 0.28, 0.71, 0.003 and 0.01 in group B). The within-group comparisons of amplitudes showed insignificant increases in all motor amplitudes and all sensory amplitudes in group B except the stimulating site sole of the left foot. All the sensory amplitudes in group A were significantly increased except the stimulating site head of the left fibula in group A (P-value= 0.56, 0.74, 0.38, 0.66, 0.02, 0.048, 0.04, and 0.15 in group A, while 0.9, 0.44, 0.6, 0.95, and 0.15 in group B). The Page 7 of 19 مستوى سرية الوثيقة: استخدام داخلي Doc. No. (PUA-IT-P01-F14) Publications Template

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			within-group comparisons of NCV showed an insignificant increase in all motor NCV except the NCV at the stimulating site sole of both right and left feet in group A. There was a significant increase in all sensory NCV in group A. The sensory NCV of group B were insignificantly increased except the stimulating site sole of left foot (P-value= 0.02, 0.13, 0.03, 0.14, 0.0001, 0.01, 0.0001, and 0.0001 in group A, while 0.48, 0.36, 0.72, 0.76, 0.21, 0.17, 0.0001 and 0.08 in group B). The within-group comparisons of MNQ showed a significant decrease in group A, while an insignificant decrease in group B (P-value= 0.0001 and 0.8 respectively). Discussion and Conclusion: Adding HBOT induced oxidative stress and endogenous opioid peptides producing an analgesic effect. Adding HBOT produced therapeutic improved the PDN other than depending only on traditional medical treatment.					
10	Low-level laser therapy (photobiomodul ation) versus hyperbaric oxygen therapy on healing of chronic diabetic foot ulcers: a controlled randomized trial.	Basic Sciences in Physical therapy	Background and purpose: Diabetic foot ulcers (DFU) and concurrent infections are the most frequent complications in patients with diabetes mellitus. Both low-level laser therapy (LLLT), photobiomodulation (PBM), and hyperbaric oxygen therapy (HBOT) promote the healing of wounds. The purpose of this study was to compare the effectiveness of LLLT versus HBOT on the healing of chronic DFU. Patients and methods: Seventy-five patients with chronic diabetic ulcers aged ranging from 40-65 years were recruited and assigned randomly into three groups. HBOT group received 100% pure oxygen 2.5 ATA delivered for 60 min per session for 30 sessions (5 sessions per week for 6 successive weeks). LLLT group received GaAlAs diode laser producing a total power output of 1440 mW with following wavelengths: 5 Å 850 nm (200 mW), 12 Å 670 nm (10 mW),8 Å 880 nm (25 mW), and 8 Å 950 nm (15 mW); the energy density (flu-ency) was adjusted for 4 J/cm 2 with a pulse frequency of 10 kHz. Each session lasted 8 min every two days. The control group received conventional wound care only (wound cleansing twice daily using saline or similar dressing). Both LLLT and HBOT groups received conventional wound care in addition to their program. Measurements for ulcer surface area (USA; transparency method) and ulcer volume (volumetric method) were performed before starting the study and in the second, fourth, and sixth-weeks post-treatment. Results: Within group comparisons demonstrated a statistically significant decrease in USA and ulcer	2021	DOI: 10.1080/1083319 6.2021.1876380			
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			volume in both HBOT and LLLT g The multiple comparisons between between HBOT and LLLT groups a and 0.629, respectively), while for u difference in favor of the LLLT gro respectively) while an insignificant Conclusion: Both LLLT and HBOT is more favorable in decreasing ulco	groups for USA, there w after 2-, 4-, and 6-weeks alcer volume, there was a oup only after 2-and 4-we difference after 6-weeks accelerate healing in ch	vas insignificant difference (p-value ¹ / ₄ 0.48, 0.813, a statistically significant ceks (p ¹ / ₄ 0.037 and 0.042, (p-value ¹ / ₄ 0.911). ronic DFU, but the LLLT			
11	The influence of low- intensity laser irradiation versus hyperbaric oxygen therapy on transcutaneous oxygen tension in chronic diabetic foot ulcers: a controlled randomized trial.	Basic Sciences in Physical therapy	Background and purpose: Diabetic 1 the most frequent complications in p laser therapy (LLLT), photobiomod (HBOT) promote the healing of wo the effectiveness of LLLT versus H methods: Seventy-five patients with years were recruited and assigned ra 100% pure oxygen 2.5 ATA deliver sessions per week for 6 successive v producing a total power output of 14 (200 mW), 12 Â 670 nm (10 mW),8 the energy density (flu-ency) was ac kHz. Each session lasted 8 min ever conventional wound care only (wou dressing). Both LLLT and HBOT g addition to their program. Measurer method) and ulcer volume (volumet study and in the second, fourth, and group comparisons demonstrated a volume in both HBOT and LLLT groups a	foot ulcers (DFU) and corpatients with diabetes me lulation (PBM), and hype unds. The purpose of this BOT on the healing of cl in chronic diabetic ulcers andomly into three group red for 60 min per session weeks). LLLT group reco 440 mW with following 8 Â 880 nm (25 mW), an djusted for 4 J/cm 2 with ry two days. The control and cleansing twice daily roups received convention ments for ulcer surface an tric method) were perform statistically significant de roups (p-value ¹ / ₄ 0.0001 groups for USA, there w	oncurrent infections are ellitus. Both low-level erbaric oxygen therapy s study was to compare hronic DFU. Patients and aged ranging from 40-65 os. HBOT group received n for 30 sessions (5 eived GaAlAs diode laser wavelengths: 5 Å 850 nm id 8 Å 950 nm (15 mW); a pulse frequency of 10 group received using saline or similar onal wound care in rea (USA; transparency med before starting the ent. Results: Within ecrease in USA and ulcer in all measurements). ras insignificant difference	2021	DOI: 10.1080/1083319 6.2021.1876380	
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12	Influence of a Selected Prone Positioning Program on Gross Motor Development in Children with Spastic Diplegic Cerebral Palsy	Basic Sciences in Physical therapy	and 0.629, respectively), while for difference in favor of the LLLT gro respectively) while an insignificant Conclusion: Both LLLT and HBO is more favorable in decreasing ulc ABSTRACT Background: Cerebra motor development, is one of the m children. Objective: To detect the in development in children with spast spastic diplegic CP children of both randomly chosen from the Medical University for Technology and Info to 18 months, with partial control of measure (GMFM), and mild spastic scale). Children were randomly ass physical therapy program based on and study group received the select designed prone and quadruped exer conducted three times/week for thr comparison of GMFM showed no st there were significant differences in and P= 0.000, respectively). Conclu- position training program was effect children with spastic diplegia. Key Development, Spastic Diplegic Cer	bup only after 2-and 4-we difference after 6-weeks a ccelerate healing in ch er volume after during th l palsy (CP), a heterogen- nost important causes of confluence of prone position ic diplegic cerebral palsy h genders participated in the Centre of Faculty of Phy prmation, Cairo, Egypt. The f head and trunk accordin- city (grade 1, 1+ accordin- ting of the accordin- ting of the accordin- city (grade 1, 1+ accordin- ting of the accordin-ting of the accordin-ting of the accordin-ting the accordin-ting of the accord	eeks (p $\frac{1}{4}$ 0.037 and 0.042, 6 (p-value $\frac{1}{4}$ 0.911). ronic DFU, but the LLLT e first 4-weeks. eous disorder of gross disability influencing ning on gross motor 7. Methods: Forty-two this study. They were visical Therapy, Modern Their ages ranged from 12 ng to gross motor function ng to Modified Ashworth received selected principles for 60 minutes, ram in addition to a atment procedures esults: The in-between the pre-measures while .322, P= 0.194, t= 6.397, study revealed that prone poss motor skills in	2020	https://japer.in/st orage/models/arti cle/xdBwIMIf013 tUcgXJxDwId7E AErrKBDRpevc FcPgRL7RbK7K QxtAb8z4VItK/i nfluence-of- prone- positioning-on- gross-motor- development-in- children-with- spastic-diplegic- cerebr.pdf	
13	Exercise on Maternal and Neonatal Outcomes in Obese Elderly	Basic Sciences in Physical therapy	Background. In obstetric practice, advanced maternal age such as in case of elderly primigravida is known to be associated with adverse maternal and fetal outcomes. Obesity is a commonly occurring risk factor with advancing maternal age. Exercise			2019	https://fizjoterapi apolska.pl/en/arti cle/effect-of- exercise-on- maternal-and-	
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	چمته کاروش							
Primigravida: Randomized Clinical Tria	1	in pregnancy could prevent and lim research was warranted to study the effect of exercise in this high risk group d investigate the effect of a specialized exercise prog pregnancy on maternal and neonata Methods. Design: A randomized, cl conducted at physical therapy Depa Egypt, between May 2016 and May 80 obese elderly primigravida partic groups. Interventions: The experime perform the exercise program starting fro1n 14 weeks&# weeks' gestation with a moder each trimester of pregnancy. while the provided with specific instructions to diet and advice. Outcome measures: Primary outcome measure was the last BMI gestation while the secondary outcome were mode of delivery, neonatal we obese elderly primigravida (control group randomized. There were statistical s differences between groups in last BM!, mode of delivery and neo minute of life (p < 0.05). While, between groups in neonatal weight	ue to lack o f research in gram combined with diet l outcomes in obese elde inical, controlled trial. S artment of Bab E IS- haris 2017. Participants: cipants enrolled into exp ental group participants of 39; gestation till 3 7 rate restricted diet and re the control group particip to perform the exercise p of each participant meas beight and neonatal APGA o n = 40; experimental gr significant nates APGAR scores at there was no statistical si	a this area. Objective. To conducted early in erly primigravida. etting: The study was a University Hospital, erimental and control were closely supervised to ecceived advice specific to pants were brogram with the same sured at 37 weeks of AR score. Results. Eighty roup $n = 40$) were 1st minute of life and 5th ignificant difference		neonatal- outcomes-in- obese-elderly- primigravida-a- randomized- clinical-trial/		
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			exercise program is very effective i in obese elderly primigravidae and	n decreasing maternal an their off springs.	d neonatal complications				
14	Influence of Different Exercise Regimens On Segmental Body Fat In Obese Primary School Children.	Basic Sciences in Physical therapy	Purpose: to compare the influence of fat in obese primary school children from 6 to 12 years. Children were r only), II (diet plus aerobic training) plus combined aerobic and resistan DEXA) were measured before and Results: Significance in BMI and to 0.000). Insignificance in trunk fat n in control group (P=0.155 and 0.10 groups (P<0.05).Conclusion: Differ segmental body fat in obese primar	n. Methods: 100 obese ch andomly allocated into: O , III (diet plus resistance ce training). BMI and seg after 6 consecutive month otal fat and legs fat mass/ nass/total fat mass % and 9 respectively) while sign rent exercise regimens ha	ildren, their ages ranged Group I (control/diet training) and IV (diet gmental body fat (using hs of the program. total fat mass % (P= limb/trunk fat mass ratio mificance in exercise	2019	DOI: 10.5958/0976- 5506.2019.04104 .4		
15	Electromagnetic Field Versus Diclofenac Drugs on Primary Dysmenorrhea: A single-blind randomized controlled trial.	Basic Sciences in Physical therapy	segmental body fat in obese primary school children. Aim: Primary dysmenorrhea is one of the most common complaints of women and is also the most common gynecological problem worldwide. The cramps of dysmenorrhea are recurrent and 90% of adolescent girls and about 50% of women suffer from it. This study was aimed to determine which is more effective in alleviating primary dysmenorrhea: pulsed electromagnetic field (PEMF) or diclofenac drugs. Material and Method: Fifty adult females with regular menstrual cycle 21-35 days lasting 3-7 days and having the same ordinary daily living activities participated		2019	DOI: 10.4328/JCAM.5 890			
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16	Influence of Scapular Stabilization Exercises on Asymptomatic Forward Head Posture; A Randomized Controlled Trial.	Basic Sciences in Physical therapy	progesterone blood level in Group A more effective than diclofenac drug dysmenorrhea. Keywords Primary I Diclofenac Drugs Objective: The aim of this study wa stabilization exercises (SSE) on corr (FHP). Methodology: Forty particip (28.72±1.70 years) from both gende divided. Study group (A) received S while control group (B) received PC Cranio-vertebral angle (CVA), and (EMG) of serratus anterior muscle v Statistical analysis in form of MAN study group (A) in each of CVA, an pre and post treatment with (P value = significant change in pre-value of al respectively, post-treatment showed muscle activity for serratus anterior as (P= 0.004) while left side showed improvement in study group (A) (R (R 40.5 %, L 29 %) respectively. C method in correcting FHP in asymp	s in relieving pain and as Dysmenorrhea; Pulsed E s to investigate the influ- recting asymptomatic for pants aged from 20- 30 years were included (21 fer SSE and postural correcting CE only three sessions per Root mean square (RMS) were measured pre and p OVA showed significant d muscle amplitude of s e =0.000). Also, a signifi- 0.000). The in between- ll variables as (P=0.716, l a significant change in muscle showed a signifi- d no significant change (83.6%, L 54.3%) higher conclusion: SSE is consid-	ssociated symptoms with lectromagnetic Field; ence of scapular rward head posture ears with mean nale-19 male) randomly ional exercises (PCE) er week for ten weeks. S) of muscle activity post-treatment. Results: tt changes within-group at erratus anterior both sides icant change within-group group analysis showed no 0.291, 0.217) CVA as (P=0.000) and icant change of right side P=0.112) but percent of r than control group (B)	2019	DOI: 10.37506/v10/i1 2/2019/ijphrd/19 2406
17	Effect of Different Doses of Low- Intensity Laser Therapy on Total Active Range of	Basic Sciences in Physical therapy	Objective To investigate the difference level laser therapy (4 or 1 J/cm ²) on after flexor tendon repair. Participa 33 patients with 45 injured fingers of complete cut of hand flexor tendon. were recruited from the plastic surge postoperatively after permission by	ence between the effects the return of hand active ants and methods A sma of both sexes who underv Their age ranged from 2 ery department. The trea	e range of motion (ROM) all trial was conducted on went primary repair after 20 to 40 years old. They atment began the first day	2019	DOI: <u>https://doi.</u> org/10.4103/JMI SR.JMISR_5_19
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	Motion After		Transcutaneous electrical nerve stin		1.		
	Hand Flexor		started the seventh day after surgery	7. Laser treatment lasted	for 3 weeks only, whereas		
	Tendon Repair.		other modalities lasted for 3 months	s. The sample was random	mly divided into three		
	_		groups each of 15 injured tendons.	Group A received the con	nventional treatment plus		
			laser therapy (1 J/cm ²), three session	ns/week for 3 weeks. Gr	oup B received the		
			traditional treatment plus laser there				
			Control group received the convent				
			early conventional physical therapy				
			therapeutic exercises following Dur				
			The ROM was measured at eighth a				
			treatment. Results At second month				
			positive effect of laser therapy with		2		
			ROM after flexor tendons repair, wi				
			third month after commencement of	f treatment, best results i	n hand active ROM were		
			seen in group B (4 J/cm ²), with prog	gnosis being excellent in	46.7% of patients, good		
			in 33.3% and fair in 20.0% according				
			classification. Conclusion The 4-J/d	cm^2 laser dose is more effectively as the second secon	fficient than laser dose of		
			1 J/cm^2 in the treatment of repaired	hand flexor tendons in a	ddition to conventional		
			treatment (TENS stimulation plus D	Ouran protocol therapeuti	ic exercises) in early		
			regain of active ROM that can affect	et return of early better ha	and function.		
	Influence of		Background Impaired posture is stre	ongly associated with fur	nction particularly in		
	Sensory		patients with parkinsonian disease (2		
	Integration	Basic	integration training on postural insta				
	Training on	Sciences	surgery. Patients and methods A tot	1	1		DOI:
18	Postural	in	before and after 12 weeks by the po			2019	10.4103/bfpt.bfpt
10	Instability in	Physical	into three groups: group I (sensory i			2017	_1_19
	Elderly With	therapy	surgery), and group III (sensory inte	egration training after 10	days postoperatively).		
	Parkinsonian	unerapy	Results There was significant impro-	0 1	0 1		
	Disease		The percent of improvement of grou				
	Following		index (48.86%, t=7.088 and P=0.00	01(, anterior/posterior in	idex (74.61%, t=21.240		
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	Stereotactic Surgery.		and P=0.0001), and medial/lateral index (55.81%, t=14.014 and P=0.0001). Group III was superior to groups I and II (P=0.026 and 0.001, 0.040 and 0.0001, and 0.049 and 0.0001). Conclusion Sensory integration training improved postural stability in elderly with PD following stereotactic surgery		
19	Root Mean Square of Dominant Versus Non-Dominant Latissimus Dorsi Muscles during Unilateral Carrying	Basic Sciences in Physical therapy	Abstract: Background: unilateral carrying causes many physical, physiological and biomechanical problems. Purpose: was for investigating the root mean square of dominant versus non-dominant Latissimus Dorsi muscles during unilateral carrying. Subjects: thirty normal students their ages ranged from 18 to 22 years. Method: Root Mean Square (RMS) of myoelectrical activity of Latissimus Dorsi muscles was measured during carrying unilateral shoulder bag with 10% of body weight (BW) on non dominant shoulder for 5 minutes. Results: Mann Whitney test revealed highly significant decrease of the RMS of EMG of non dominant side than of the dominant side with mean (5.20 + 0.8 and 9.14 + 2.43 mv) respectively (Z-value= -3.377 and P=0.001). Conclusion: unilateral carrying of 10% BW shoulder bag lead to asymmetrical increase in latissmus dorsi muscles activity. Key word: unilateral bag carrying, myoelectrical activity, root mean square, Latissimus Dorsi muscles.	2017	https://www.sphi nxsai.com/2017/c h_vol10_no2/2/(4 68- 476)V10N2CT.pdf
20	Efficacy of Muscle Energy Technique versus Myofascial Release in Management of Patients with Cervical Myofascial Pain	Basic Sciences in Physical therapy	Abstract: Introduction: Manual therapies had specific efficacy in management of myofascial syndromes characterized by presence of myofasciel trigger points. Purpose: to investigate the efficacy of muscle energy technique versus myofascial release in patients with cervical myofascial pain. Subjects: Forty five male patients, their age ranged from 30-40 years old, with cervical myofascial pain randomly assigned into 3 groups. Methods: experimental Group (A): had received muscle energy technique (post-isometric relaxation), Experimental Group (B) had received myofascial release (progressive pressure release) and Control Group (C) had received the traditional physical therapy rehabilitation program (infrared heat, ultrasound and exercises) 3 sessions/week for 4 weeks. Assessment: were performed by electronic digital algometer and Neck disability index prior before and after the completion of the 4 weeks treatment program. Results: Paired t-test revealed that there were high significant differences between pre and post treatment of pain pressure threshold (t= 29.86, p= 0.001& t= 24.61, p= 0.001 and p= 11.16, p= 0.001) and neck disability index (t= 14.28, p= 0.001& t= 14.01, p= 0.001 and t= 13.74, p= 0.001) within groups as the mean values increased in all 3 groups. ANOVA test revealed a significant difference between the 3 groups for the post treatment value (F=112.3 & P=0.0001 and F=43.64 & P=0.0001) respectively.	2017	https://sphinxsai.c om/2017/ch_vol1 0_no2/2/(477- 485)V10N2CT.pdf
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			Post Hoc test revealed that group A and group B were improved more than group C. Conclusion: muscle energy technique and myofascial release were effective in treating cervical myofascial pain. Key wards: post-isometric relaxation, progressive pressure release, cervical myofascial pain, electronic digital algometer and neck disability index		
21	Efficacy of Therapeutic Taping on Wrist Flexors Hyper Tonicity in Hemiplegia	Basic Sciences in Physical therapy	Background: wrist flexors hyper tonicity is one of the most common complications associated with hemiplegia. Purpose: to investigate the efficacy of therapeutic taping on wrist flexors hyper tonicity in hemiplegia. Design: A pre-test post-test experimental-control design. Subjects: Thirty hemiplegic patients from both genders (male\female:22\8).Their age ranged between (42 -63) years. Selected from out clinic patients of Faculty of Physical Therapy, Cairo University. Materials and methods: They were assigned randomly in two groups: group (A): Experimental group (n=15) received selected physical therapy program and therapeutic tapping and group (B): Control group (n=15) received selected physical therapy program only. All patients were tested for Hoffmann reflex/myogenic response ratio (H/M ratio) before and after twelve sessions using electromyography (EMG) in electromyographic unit of Kasr El-Aini hospital. Results: Paired t-Test revealed that there was high statistical significant decrease in hyper tonicity (t = 4.36 and p=0.001) concerning experimental group (pre-test mean= 47.27% ±11.96, post-test mean= 32% ±7.2) but there was insignificant statistical increase in hyper tonicity (t = 0.44 and p=0.07) concerning control group (pre-test mean 46.9% ±8.01,post-test mean= 48.15% ±7.3). Unpaired ttest revealed that there was insignificant results concerning the pre-means of H/M ratio (p= 0.07and t= 0.8) while there was significant results concerning the postmeans of H/M ratio (p= 0.001 and t= 4.06). Conclusion: adding therapeutic taping to physical therapy sessions decreased wrist flexors hyper tonicity for hemiplegia. Key words: hemiplegia, therapeutic tape, hyper tonicity, H/M ratio.	2017	https://scholar.cu. edu.eg/?q=anazih/ files/lbhth_lthlth.p df
22	Influence of Wearing High Heel on Different Foot Angels in Normal Female Subjects	Basic Sciences in Physical therapy	Background: Foot posture and pressure on the ball of the foot altered by wearing high heel. Its repeated wear is known to strain the hips and knees as well as increasing the risk of conditions such as osteoarthritis, hammer toe, back problems, bunions and corns. Purpose: To investigate the influence of wearing high heel on different foot angels in normal female subjects. Subjects: Thirty normal female subjects their age ranged from 18-25years old; they were volunteers. Method: Subjects already wearing high heel (two inch) for at least eight weeks. Plain loaded X-ray on the foot to be examined was performed. Four angles were	2017	https://scholar.cu. edu.eg/?q=anazih/ files/6_nskh_lbhth _lrl.pdf
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			measured meary 's, calcaneal pitch, Talonavicular coverage and lateral talocalcaneal angles. Results: There were three angles were mostly affected and had marked flat foot as follows; Meary's angle [28/30 (93.33%)], calcaneal pitch angle [27/30 (90%)] and finally talonavicular [19/30 (63.33%)]. Although, lateral talocalcaneal angle hadn't affected yet [7/30 (23.33%). So, the degree of angle affection in females were ranged 14 to 25 (46.66% to 83.33%). Conclusion: wearing of high heel for long period of time had impact on different foot angels. Key Words: Foot arches, high heel, meary's angle, calcaneal pitch angle, talonavicular coverage angle and lateral talocalcaneal angle.		
2.	Efficacy of Laser Pulse Frequencies on Blood Flow in Type 2 Diabetic Patients	Basic Sciences in Physical therapy	Background: research reports had noted apparent increase in cutaneous and deep blood flow as a result of low intensity laser therapy (LLLT) in normal subjects. Purpose: was to investigate the effective laser pulse frequency either (200 or 2000 Hz) on improving blood flow in type 2 diabetic patients. Subjects: Forty five diabetic patients selected from out clinic of Kasr El-Aini Hospital, Cairo University assigned randomly into three groups. The blood flow volume, blood flow velocity and caliper of the blood vessel were evaluated before laser application and after twelve sessions using duplex Doppler ultrasound. Methods: Combined He-Ne and infrared LILT was administered three times a week for twelve sessions at intensity of 3 J, power 500 mW, 808 nm duration 15 min and pulse frequency 200 Hz for group I, 2000 Hz for group II, and sham LILT for group III on the sural artery at posterior aspect of dominant leg. Results: paired t-test revealed that low pulse frequency (200 Hz) LILT produced significant improvement in blood flow volume and blood flow velocity (t= 1.76, p= 0.001 and t= 2.8, p= 0.01) respectively (P	2017	https://scholar.cu. edu.eg/sites/defa ult/files/anazih/fil es/6_nskh_lbhth_l khmspdf
2	Effect of Kinesio Tape on Fatigue Timing in Lower Back Muscles in Normal Subjects	Basic Sciences in Physical therapy	Background: Fatigue of the back muscles had been found to be an important factor in the increased movement of the body's center of pressure. Purpose: to investigate the effect of kinesio tape on fatigue timing in lower back muscles in normal subjects. Subjects: Forty healthy sedentary volunteers from both sexes. Methods: Subjects were randomly assigned into two groups. Experimental group (their mean age was 20.25 ±2.22 years) and Control group (their mean age was 19.95±1.76 years), all subjects were tested twice (with and without kinesio tape) within two consequent days. Results: paired t-test showed significant improvement in peak torque of lumbar extensor muscles and number of repetitions of maximum muscle contraction in experimental group (t= 4.31, p= 0.0004 and t=6.04, p=0.005respectively), but showed insignificant differences in control group (t=1.92, p=0.07	2015	https://scholar.cu. edu.eg/?q=anazih/ files/lbhth_lsb.pdf
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25	The Effect of Low-Level Laser Therapy on Electrically Induced Muscle Fatigue: A Pilot Study	Basic Sciences in Physical therapy	and t=0.15, p=0.88 respectively). Unpainsignificant differences in peak torque number of repetitions (t=0.21, p=0.8 at tape improved the peak torque and mormal subjects. Keywords: Lower back The purpose of this pilot study is to could attenuate skeletal muscle fatistimulation (NMES) in healthy voluthree cross-over randomized trials: (NMES only), in which NMES was group. The LLLT doses, 500 mW at energy of 7 J for 10 min or 3 J for 5 irradiation, the NMES protocol was in the knee extensor muscle group. After the control trial, torque signiff at the end of 3 min. Although there LLLT trials and the control trial, the (p = 0.63). LLLT did not attenuate be further addressed in human stud findings could be explained by the parameters.	e while showed significant and t=2.56, p=0.014respect umber of repetitions of the ck muscles fatigue, muscle o determine if low-level la gue induced by surface n unteers. Five college-age two (LLLT + NMES) tes s applied to their dominant at 808 nm, were either ad 5 min in a blinded fashion s immediately delivered f The five participants cor ficantly decreased (62%; ference between the 7 J a s, torque significantly dec was a difference (11%) is difference did not attai muscle fatigue evoked by ies and clinical settings.	improvement in the cively). Conclusion: Kinesio e lower back muscles in fatigue timing, kinesio tape. aser therapy (LLLT) neuromuscular electrical participants underwent st trials and a control trial int knee extensor muscle justed to deliver a total in. Following LLLT for 3 min to induce fatigue inpleted the three trials. p < 0.0001) at the end of and 3 J trials on muscle creased (51%; $p < 0.0001$) in fatigue between the two in statistical significance y NMES, but this needs to The lack of significant	2008	DOI: 10.1089/pho.200 7.2161
26	Scapular Stabilization Exercise versus Neck Stabilization Exercise in Females with	Basic Sciences in Physical therapy	Background: Neck pain is a common major health problem worldwide the common phenomenon related to M higher prevalence in females than r compare the efficacy of scapular state exercise on chronic mechanical nec	at affects the quality of l uscle deterioration and so nales. Aim of Study: Thi abilization exercise to ne	ife. Neck pain is a capular dysfunction with s study was conducted to	2021	DOI: 10.21608/mjcu.2 021.225160
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Chronic	Subjects and Methods: Forty-five female patients with history of chronic neck pain
Mechanical	participated in this study. The patients were randomly assigned into three equal
Neck Pain	groups. Group A (control group) received hot packs, ultrasound, stretching exercises.
	Group B (Scapular stabilization) received scapular stabilization exercise plus the
	same control group program. Group C (Neck stabilization) received neck stabilization
	exercise plus the same control group program. The treatment sessions were conducted
	three times per week every other day for six successive weeks. All subjects assessed
	for pain using visual analogue scale (VAS) and for functional activity using Neck
	disability index (NDI) and Cervical range of motion device (CROM) before and after
	treatment.
	Results: VAS, CROM and NDI parameters improved with all modalities. Post
	treatment results revealed that there was a significantly superior improvement in pain
	intensity, disability and functional mobility in the neck stabilization group.
	Conclusion: Exercise and conventional physical therapy treatment is significantly
	effective in treating chronic neck pain with superiority of neck stabilization exercise.

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