

## Department of Physical Therapy and Rehabilitation

### Supervisors

Prof. M. Gülden Polat PT, PhD  
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<b>Research Areas: Lecturer</b>	<b>Research Areas</b>
<b>Prof. Dr. M. Gülden Polat</b>	1-)Physical Therapy Higher Education 2) Innovative Applications in Telerehabilitation 2-) Cardiopulmonary Rehabilitation 3-) Physical Therapy in Diabetes Mellitus/Atherometabolic Syndroms 4-)Risk Management, Exercise Prescription in Physical Therapy 5-) Geriatric Rehabilitation 6) Clinical Practice in Physiotherapy
<b>Prof. Dr. S. Ufuk Yurdalan</b>	1-) Cardiopulmonary Physical Therapy and Rehabilitation 2-) Physiotherapy in Chest-Cardiovascular Surgery 3-) Physiotherapy in Oncologic Diseases 4-) Physiotherapy in Renal Diseases 5) Clinical Practice in Physiotherapy 6)Organ Transplantation 7) Curriculum Development

<b>Doç. Dr. Zübeyir Sarı</b>	1-) Orthopedic Physiotherapy Innovative Approaches and Rehabilitation Technologies 2-)Virtüel Rehabilitation 3-) Prosthetic - Orthosis Rehabilitation 4) Wearable Technologies	
<b>Yrd. Doç. Dr. Semra Oğuz</b>	1-) Rehabilitation in Neurological Diseases 2-) Rehabilitation in Respiratory Problems 3-) Neurophysiological Approaches to Cardiac Surgery 4-) Respiratory Muscle Training in Neurological Diseases	
<b>Yrd. Doç. Dr. Tuğba Kuru Çolak</b>	1-) Physiotherapy and Rehabilitation in Neuromuscular and Adolescent Idiopathic Scoliosis 2-) Physiotherapy and Rehabilitation in Orthopedic Diseases 3-) Conservative Treatment Methods in Scoliosis	
<b>Yrd. Doç. Dr. Gönül Acar</b>	1-)Pediatric Rehabilitation 2-) Current approachments in cerebral palsy 3-) Constraining Compulsory Movement Therapy in Cerebral Palsy	
<b>Yrd. Doç. Dr. İlkşan Demirbüken</b>	1-)Clinical practice in physical therapy 2-)Movement Science 3-)Serabral Palsy Rehabilitation, 4) Orthotic Rehabilitation	
<b>Yrd. Doç. Dr. Aysel Yıldız</b>	1)Physiotherapy in Cardiometabolic Problems 2)Lymph-edema Therapy in Phsical Therapy 3)Temporomandibular art. Rehabilitation 4-)Manuel Therapy	
<b>Yrd. Doç. Dr. Eda Tonga</b>	1-)Ergotherapy - Wearable Technologies 2-) Rehabilitation in Rheumatology	

3-)Clinical Physiotherapy

4-)Fitness-Wellness, Yoga, Thai Chi, Clinical Pilates

#### Recent Publications (2013- 2016)

- Sarı Z, Polat MG, Özgül B, Aydoğdu O, Camçoğlu B, Acar AH, Yurdalan SU. A comparison of three different physiotherapy modalities used in the physiotherapy of burns. *J Burn Care Res.* 2013;34(5):e290-6. doi: 10.1097/BCR.0b013e3182789041. PMID: 23816993
- Sarı Z, Polat MG, Özgül B, Aydoğdu O, Camcioğlu B, Acar AH, Yurdalan SU. The application of matrix rhythm therapy as a new clinical modality in burn physiotherapy programmes. *Burns.* 2014;40(5):909-14. doi: 10.1016/j.burns.2013.11.009. PMID: 24503181
- Angin S, Karadibak D, Yavuzşen T, Demirbüken I. Unilateral upper extremity lymphedema deteriorates the postural stability in breast cancer survivors. *Contemp Oncol (Pozn).* 2014;18(4):279-84. doi: 10.5114/wo.2014.44120. PMID: 25258587
- Özyürek S, Demirbüken İ, Angin S. Altered movement strategies in sit-to-stand task in persons with transtibial amputation. *Prosthet Orthot Int.* 2014;38(4):303-9. doi: 10.1177/0309364613497742. PMID: 24002175
- Ozünlü Pekiyaş N, Kunduracılar Z, Ersin A, Ergüneş C, Tonga E, Karataş M. The relationship between scapular dyskinesia, pain, range of motion, and flexibility in patients with neck and shoulder problems. *Agri.* 2014;26(3):119-25. doi: 10.5505/agri.2014.55486. PMID: 25205410
- Cidem M, Karacan I, Dıraçoğlu D, Yıldız A, Küçük SH, Uludağ M, Gün K, Ozkaya M, Karamehmetoğlu SS. A Randomized Trial on the Effect of Bone Tissue on Vibration-induced Muscle Strength Gain and Vibration-induced Reflex Muscle Activity. *Balkan Med J.* 2014;31(1):11-22. doi: 10.5152/balkanmedj.2013.9482. PMID: 25207162
- Yildirim M, Demirbuken I, Balci B, Yurdalan U. Beliefs towards mental illness in Turkish physiotherapy students. *Physiother Theory Pract.* 2015;31(7):461-5. doi: 10.3109/09593985.2015.1025321. PMID: 26200436
- Acar S, Demirbüken İ, Algun C, Malkoç M, Tekin N. Is hypertension a risk factor for poor balance control in elderly adults? *J Phys Ther Sci.* 2015;27(3):901-4. doi: 10.1589/jpts.27.901. PMID: 25931755
- Öztürk Ö, Sarı Z, Özgül B, Taşyikan L. Validity and reliability of the Turkish "Patient-Rated Wrist Evaluation" questionnaire. *Acta Orthop Traumatol Turc.* 2015;49(2):120-5. doi: 10.3944/AOTT.2015.14.0208. PMID: 26012931
- Durutürk N, Tonga E, Karatas M, Doganozu E. Activity performance problems of patients with cardiac diseases and their impact on quality of life. *J Phys Ther Sci.* 2015;27(7):2023-8. doi: 10.1589/jpts.27.2023. PMID: 26311919
- Tonga E, Durutürk N, Gabel PC, Tekindal A. Cross-cultural adaptation, reliability and validity of the Turkish version of the Upper Limb Functional Index (ULFI). *J Hand Ther.* 2015;28(3):279-84; quiz 285. doi: 10.1016/j.jht.2014.11.001. PMID: 25998545

- Tonga E, Gabel CP, Karayazgan S, Cuesta-Vargas AI. Cross-cultural adaptation, reliability and validity of the Turkish version of the spine functional index. *Health Qual Life Outcomes*. 2015;13:30. doi: 10.1186/s12955-015-0219-3. PMID: 25879743
- Duruturk N, Tonga E, Gabel CP, Acar M, Tekindal A. Cross-cultural adaptation, reliability and validity of the Turkish version of the Lower Limb Functional Index. *Disabil Rehabil*. 2015;26:1-6. PMID: 25777549
- Çolak TK, Apta A, Dereli EE, Özdingler AR, Çolak İ. Scoliosis screening results of primary school students (11-15 years old group) in the west side of Istanbul. *J Phys Ther Sci*. 2015;27(9):2797-801. doi: 10.1589/jpts.27.2797. PMID: 26504296
- Acar G, Altun GP, Yurdalan S, Polat MG. Efficacy of neurodevelopmental treatment combined with the Nintendo(®) Wii in patients with cerebral palsy. *J Phys Ther Sci*. 2016;28(3):774-80. doi: 10.1589/jpts.28.774. PMID: 27134357
- Çolak TK, Çolak İ, Timurtaş E, Bulut G, Polat MG. Pedobarographic and Radiological Analysis After Treating a Talus Neck Fracture. *J Foot Ankle Surg*. 2016;55(6):1216-1222. doi: 10.1053/j.jfas.2016.07.017. PMID: 27600487
- Çolak TK, Acar G, Dereli EE, Özgül B, Demirbükten İ, Alkaç Ç, Polat MG. Association between the physical activity level and the quality of life of patients with type 2 diabetes mellitus. *J Phys Ther Sci*. 2016;28(1):142-7. doi: 10.1589/jpts.28.142. PMID: 26957746
- Demirbükten İ, Özgül B, Kuru Çolak T, Aydoğdu O, Sarı Z, Yurdalan SU. Kinesiophobia in relation to physical activity in chronic neck pain. *J Back Musculoskeletal Rehabil*. 2016;29(1):41-7. doi: 10.3233/BMR-150594. PMID: 25812549
- Demirbükten İ, Özyürek S, Angın S. The immediate effect of patellar tendon strap on weight-bearing asymmetry during squatting in patients with unilateral knee osteoarthritis: A pilot study. *Prosthet Orthot Int*. 2016;40(6):682-688. PMID: 26511380
- Özdemir ÖC, Tonga E, Tekindal A, Bakar Y. Cross-cultural adaptation, reliability and validity of the Turkish version of the Chronic Venous Disease Quality of Life Questionnaire (CIVIQ-20). *Springerplus*. 2016;31;5:381. doi: 10.1186/s40064-016-2039-2. PMID: 27066388
- Tonga E, Atasavun Uysal S, Karayazgan S, Hayran M, Düger T. Development and reliability of a Turkish version of the Short Form-Joint Protection Behavior Assessment (JPBA-S). *J Hand Ther*. 2016;29(3):275-80. doi: 10.1016/j.jht.2015.11.001. PMID: 26705673
- Reyhan AÇ, Dereli EE, Çolak TK. Low back pain during pregnancy and Kinesio tape application. *J Back Musculoskeletal Rehabil*. 2016;23. doi: 10.3233/BMR-160584. PMID: 28035911
- Çolak TK, Akgül T, Çolak İ, Dereli EE, Chodza M, Dikici F. Health related quality of life and perception of deformity in patients with adolescent idiopathic scoliosis. *J Back Musculoskeletal Rehabil*. 2016;11. PMID: 27858697
- Yucel H, Acar G. Levels of empathy among undergraduate physiotherapy students: A

cross-sectional study at two universities in Istanbul. Pak J Med Sci. 2016;32(1):85-90. doi: 10.12669/pjms.321.8745. PMID: 27022351

- Mutluay FK, Gunduz A, Tekeoglu A, Oguz S, Yeni SN. Health related quality of life in patients with epilepsy in Turkey. J Phys Ther Sci. 2016;28(1):240-5. doi: 10.1589/jpts.28.240. PMID: 26957766
- Genç G, Apaydın H, Gündüz A, Poyraz Ç, Oğuz S, Yağcı S, Canaz H, Aydın S, Gündoğdu-Eken A, Başak AN, Ertan S. Successful treatment of Juvenile parkinsonism with bilateral subthalamic deep brain stimulation in a 14-year-old patient with parkin gene mutation. Parkinsonism Relat Disord. 2016;24:137-8. doi: 10.1016/j.parkreldis.2016.01.018. PMID: 26830385
- Yıldız A, Tarakcı D, Hajebrahimi F, Mutluay F. Disabled children's functionality and maternal quality of life and psychological status. Pediatr Int. 2016;58(12):1291-1296. doi: 10.1111/ped.13020. PMID: 27085099

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