

CURRICULUM VITAE

ELEFTHERIOS N. LAVDAS

Associate Professor of Radiology and Radiotherapy sector, Department of Biomedical Sciences, University of West Attica

Ex Head of paramedical Laboratories in University Hospital of Larissa

Laboratory of Radiology – Medical Imaging

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- **Academic Education**

- 1985-1989: BSc in Diagnostic Radiography from the Technological Educational Institute of Athens
- 2005: MSc in Medical Physics (University of Patra, Greece)
- 2007: Ph.D. Research in Computed Tomography, University Thessaly, Greece.

- **Employment history**

- From 25-10-1991 to 4-6-1992: full-time radiographer in the Department of Nuclear Medicine of the diagnostic Center “Erevna” Larissa, Greece.
- From 4-6-1992 to 21-9-1993: full-time radiographer in Computed Tomography Department of the Aghia Sofia Children's Hospital, Athens, Greece
- From 21-9-1993 to 12-10-2000: full-time radiographer in CT and MRI Department of General Hospital of Larissa, Greece
- From 12-10-2000 to 27-4-2009: chief technician in University Hospital of Larissa Laboratory of Radiology – Medical Imaging.
- From 27-4-09 to 5-7-2010: Head of paramedical Laboratories in University Hospital of Larissa, Greece (Laboratory of Radiology – Medical Imaging).
- From 5-7-2010: Application Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS

- Technological Educational Institute of Athens.
- From 24-10-2014: Assistant Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of Athens.
- From 06-08-2019: Associate Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS, Biomedical Sciences University of West Attica

- **Educational Experience**

- 1996-1997: participation in the training of medical students at the lesson of Radiology (University of Thessaly)
- 1998-1999: participation in the training of medical students at the lesson of ‘Laboratory of Medical Informatics’ (University of Thessaly)
- 2000-2007: part-time Application Professor of Informatics, in the Department of Medical Laboratories, Technological Educational Institute of Larissa.
- 2006-July 2010: part-time Application Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of Athens
- 2009- 2012: Full-time Professor in Master Medical Physics, University of Patra, Greece.
- 116 hours as a trainer of Hospital employees in ‘Quality Imaging in MRI’
- Assistant Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of Athens.
- Associate Professor and Director of Radiology and Radiotherapy sector Department of Biomedical Sciences University of West Attica

- **Employment history**

- From 25-10-1991 to 4-6-1992: full-time radiographer in the Department of Nuclear Medicine of the diagnostic Center “Erevna” Larissa, Greece.
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- From 12-10-2000 to 27-4-2009: chief technician in University Hospital of Larissa Laboratory of Radiology – Medical Imaging.
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- From 24-10-2014: Assistant Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of Athens.
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 - University of West Attica

- **Educational Experience**

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- 1998-1999: participation in the training of medical students at the lesson of ‘Laboratory of Medical Informatics’ (University of Thessaly)
- 2000-2007: part-time Application Professor of Informatics, in the Department of Medical Laboratories, Technological Educational Institute of Larissa.
- 2006-July 2010: part-time Application Professor in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of

Athens

- 2009-today: part-time Professor in Master Medical Physics, University of Patra, Greece.
- 116 hours as a trainer of Hospital employees in ‘Quality Imaging in MRI’

- **D. Awards & Distinctions**

- Enrollment in the DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGISTS Technological Educational Institute of Athens after successful participation in national exams with the fourth better gradation
- Co writer of an awardee paper of the 2nd Hellenic Congress of Medical Radiological Technologists in 2000.
- 1st Radiographer in Greece ever accepted in a Master
- 1st Radiographer in Greece with Ph. D from a Greek University.

- **Scientific Research**

- **Master Thesis**
Subject: « Quality imaging in Computed Tomography ».
- **Ph.D**
Subject: «Artifacts in spiral CT protocols: The importance of the spatial reconstruction in Thoracic Aorta and Brain examinations ».

PAPERS IN INTERNATIONAL JOURNALS

Δ1. Karantanas AH, Zibis A, Roysogiannis S, Velesiotou C, **Lavdas E.** In vitro orbital volume measurement using computed tomography. Radiologica Diagnostica 1994; 35: 265-268 (**Scopus**).

Δ2. Paterakis K, Anagnostopoulos V, **Lavdas E**, Argiri P, Karaiskou E, Slatinopoulos V, Karantanas AH. Late CT findings and final outcome of patients with blunt brain trauma. Monduzzi Editore. Clinical Neurology and Neurosurgery, Volume 99, Supplement 1, July 1997 Pages: S18-S19 (**ScienceDirect**).

Δ3. N. Papanikolaou, AH. Karantanas **and E . Lavdas**. MR Imaging of the Liver using an ultralast 3d Multi shot EPI sequence, Acta Radiologica 1999 May; 40 (3): 322-5, (**PubMed - Impact Factor 2,011**).

Δ4. Karantanas AH, Vasiou K, **Lavbas E and** Papanikolaou N. EPI of the Brain. (Magn Reson Imaging 1999 Jun; 17 (5): 663-8). (**PubMed - Impact Factor 2,225**).

Δ5. Giorgos K. Sakkas, Konstantinos I. Gourgoulianis, Cristina Karatzaferi, Vassilios Liakopoulos, Maria D. Maridaki, Chaido Pastaka, **Eleftherios Lavdas**, Brain J. Soher, Spiros Dovas, Ioannis Fezoulidis, Georgios M. Hadjigeorgiou, and Ioannis Stefanidis. Haemodialysis patients with sleep apnoea syndrome experience increased central adiposity and altered muscular composition and functionality. Nephrol Dial Transplant, 2007 Sept 22; (**PubMed - Impact Factor 3.2**).

Δ6. Giorgos K. Sakkas, Cristina Karatzaferi, Vassilios Liakopoulos, Maria D. Maridaki, **Eleftherios Lavdas**, Cristoforos D. Giannaki, Konstantinos I. Gourgoulianis, and Ioannis Stefanidis. Polysomnographic Evidence of Sleep Apnoea Disorders in Lean and Overweight Haemodialysis patients. Journal of Renal Care. Nephrol Dial Transplant, 2007 Sept 22; (**PubMed - Impact Factor 3.2**).

Δ7. Giorgos K. Sakkas, Cristina Karatzaferi, Elias Tzitzaras, Cristoforos D. Giannaki Vassilios Liakopoulos, **Eleftherios Lavdas**, Eleni Damani, Nikos Liakos, Ioannis Fezoulidis, Yiannis Koutedakis, and Ioannis Stefanidis. Liver fat, visceral adiposity, and sleep disturbances contribute to the development of insulin resistance and glucose intolerance in nondiabetic dialysis patients. Am J Physiol Regul Integr Comp Physiol 295: 1721-1729,2008. (**PubMed - Impact Factor 3.7**).

Δ8. E. Λαβδός, Β. Ροκά, Γ. Πρωτόγερου, Μ. Βλυχού, Ι.Β. Φεζουλίδης. Εξάλειψη τεχνικών σφαλμάτων με την τμηματική ανασύνθεση σε εξετάσεις θωρακικής αορτής. Archives of Hellenic Medicine. 26(3)384-389, 2009 (**Scopus**).

Δ9. **Lavdas E.**, Vlychou M, Roka V, Wozniak G, Protogerou G, Fezoulidis I. Artifacts in spiral CT protocols: The importance of the spatial reconstruction (2009) European Journal of Radiography 1,(2) 73-79 (**Scopus- ScienceDirect**).

Δ10. **Lavdas E**, Vlychou M, Arikidis N, Kapsalaki E, Roka V, Fezoulidis IV. Comparison of T1-weighted fast spin-echo and T1-weighted fluid-attenuated inversion recovery images of the lumbar spine at 3.0 Tesla. Acta Radiol. Vol. 51, No. 3. Pages 290-295 2010 , (**PubMed - Impact Factor 2,011**).

Δ11. Katerina Vassiou, Theodora Kanavou, Marianna Vlychou, Antigoni Poultsidi, Maria Ioannou, **Eleftherios Lavdas**, Dimitris L. Arvanitis, Ioannis V. Fezoulidis. Morphological and kinetic characteristics of dynamic contrast-enhanced MRI (DCE-MRI) correlated with histopathological factors of breast cancer: A potential prognostic role of breast MRI? *European Journal of Radiography* 1,(3) 73-79 2010 (**Scopus-ScienceDirect**).

Δ12. Lavdas Eleftherios, Mavroidis P, Vassiou K, Roka V, Vlychou M, Fezoulidis IV. Elimination of Chemical Shift artifacts of Thoracic Spine with contrast-enhanced FLAIR imaging with fat suppression at 3.0T. *Magn Reson Imaging* 2010 Dec;28(10):1535-40. Epub 2010 Sep 17 (**PubMed - Impact Factor 2.225**).

Δ13. Ε. Λαβδάς, Π. Μαυροειδής, Β. Ροκά, Ι.Β. Φεζουλίδης, Κ. Βάσιου. Παγίδες στην παραγωγή των κινητικών καμπυλών της Δυναμικής Μαγνητικής Μαστογραφίας στα 3T και τρόποι αποφυγής του. *Archives of Hellenic Medicine*, 27(5), Σεπτέμβριος-Οκτώβριος 2010, 811-817. (**Scopus**).

Δ14. Giannaki CD, Sakkas GK, Hadjigeorgiou G, Karatzaferi C, Patramani G, **Lavdas E**, Liakopoulos V, Koutedakis Y, Stefanidis I. Non-Pharmacological Management of Periodic Limb Movements During Hemodialysis Session in Patients With Uremic Restless Legs Syndrome. *ASAIO Journal*. 56(6):538-542, November/December 2010 (**PubMed - Impact Factor 2.190**).

Δ15. Tzikas A, Karaiskos P, Papanikolaou N, Sandilos P, Koutsouveli E, **Lavdas E**, Scarleas C, Dardoufas K, Lind BK, Mavroidis P. Investigating the Clinical Aspects of Using CT vs. CT-MRI Images During Organ Delineation and Treatment Planning in Prostate Cancer Radiotherapy. *Technol Cancer Res Treat*. 2011 Jun;10(3):231-42. (**PubMed - Impact Factor 2.02**).

Δ16. Giannaki CD, Sakkas GK, Karatzaferi C, Hadjigeorgiou GM, Lavdas E, Liakopoulos V, Tsianas N, Koukoulis GN, Koutedakis Y, Stefanidis I. Evidence of increased muscle atrophy and impaired quality of life parameters in patients with uremic restless legs syndrome. *PLoS One*. 2011;6(10):25180. (**PubMed - Impact Factor 4.35**).

Δ17. Markonis A, Mazioti A, Wozniak G, **Lavdas E**, Vassiou K, Fezoulidis I. Perfusion sensitive contrast-enhanced magnetic resonance imaging of dysembryoplastic neuroepithelial tumour: a new neuroimaging finding. *Neurol Neurochir Pol*. 2012 Mar-Apr;46(2):184-8. (**PubMed - Impact Factor 1.61**)

Δ18. Lavdas E, Mavroidis P, Hatzigeorgiou V, Roka V, Arikidis N, Oikonomou G, Andrianopoulos K, Notaras I. Elimination of motion and pulsation artifacts using BLADE sequences in knee MR imaging. *Magn Reson Imaging*. Oct;30(8):1099-110. doi: 10.1016/j.mri.2012.04.001(**PubMed - Impact Factor 2.225**).

Δ19. Tzikas A, Komisopoulos G, Ferreira BC, Hyodynmaa S, Axelsson S, Papanikolaou N, **Lavdas E**, Lind BK, Mavroidis P. Radiobiological Evaluation of Breast Cancer Radiotherapy Accounting for the Effects of Patient Positioning and Breathing in Dose Delivery. A Meta Analysis. **Technol Cancer Res Treat Technol Cancer Res Treat**. 2013 Feb;12(1):31-44. Epub 2012 Jul 10. (PubMed – Impact Factor **2.204**).

Δ20. Lavdas E, Mavroidis P, Roka V, Arikidis N, Arvanitis DL, Fezoulidis IV, Vassiou K. A method for limiting pitfalls in the production of enhancement kinetic curves in 3T dynamic magnetic resonance mammography. **J Thorac Dis**. 2012 Aug;4(4):358-6 (PubMed – Impact IF **2.895**)

Δ21. Lavdas E, Mavroidis P, Kostopoulos S, Glotsos D, Roka V, Topalzikis T, Bakas A, Oikonomou G, Papanikolaou N, Batsikas G, Kaffes I, Kechagias D. Improvement of image quality using BLADE sequences in brain MR imaging. *Magn Reson Imaging*. 2013 Feb;31(2):189-200. doi: 10.1016/j.mri.2012.08.001. Epub 2012 Sep 7. (PubMed - Impact Factor **2.225**).

Δ22. E. Lavdas, M. Vlychou, N. Arikidis, E. Kapsalaki, V. Roka, I. Fezoylidis. How reliable is MRCP with a SS-FSE sequence at 3.0 T: Comparison between SS-FSE BH and 3D-FSE BH Asset Sequences. **Clin Imaging**. 2013 Jul-Aug;37(4):697-703. doi: 10.1016/j.clinimag.2013.01.011. Epub 2013 Mar 20. (PubMed - Impact Factor **1.015**).

Δ23. Ekaterini Solomou, Spiros Kostopoulos, Konstantinos Sidiropoulos, Emmanouil Athanasiadis, **Eleftherios Lavdas**, Dimitris Glotsos, George Sakellaropoulos, Petros Zampakis, John Stonham and Dionisis Cavouras. Designing a pattern recognition system on GPU for discriminating between patients with micro-ischaemic and multiple sclerosis lesions, using MRI images. **International Journal of High Performance Computing Applications**-11-2012 1-12 (Impact Factor **0.643**).

Δ24. Boutsikou K, Kostopoulos S, Glotsos D, Cavouras D, **Lavdas E**, Oikonomou G, Malizos K, Fezoulidis IV, Vlychou M. Texture analysis of articular cartilage traumatic changes in the knee calculated from morphological 3.0T MR imaging. *Eur J Radiol*. 2013 Aug;82(8):1266-72 (PubMed - Impact Factor **2.617**).

Δ25. E. Lavdas, P. Mavroidis, S. Kostopoulos, D. Glotsos, V. Roka, A. Koutsiaris, G. Batsikas, G. Sakkas, A. Tsagkalis, I. Notaras, S. Stathakis, N. Papanikolaou, K. Vassiou. Elimination of motion, pulsatile flow and cross-talk artifacts using Blade sequences in lumbar spine MR imaging. *Magn Reson Imaging*. 2013 Jul;31(6):882-90 (PubMed - Impact Factor **2.225**).

Δ26 Kostopoulos S, Sidiropoulos K, Glotsos D, Athanasiadis E, Boutsikou K, **Lavdas E**, Oikonomou G, Fezoulidis IV, Vlychou M, Hantes M, Cavouras D. Image analysis of traumatic chondral lesions of the knee in young adults at 3.0T with arthroscopic correlation. *Magnetic Resonance Imaging*. 2013 Jun;31(5):761-70. doi: 10.1016/j.mri.2012.10.029. Epub 2013 Jan 17. (PubMed - Impact Factor **2.225**).

Δ.27. Lavdas E, Topalzikis T, Mavroidis P, Kyriakis I, Roka V, Kostopoulos S, Glotsos D, Zilidis C, Stathakis S, Tsagkalis A, Papanikolaou N, Batsikas G, Arvanitis DL, K.Vasiou. Comparison of PD BLADE with fat saturation (FS), PD FS and T2 3D DESS with water excitation (WE) in detecting articular knee cartilage defects. *Magn Reson Imaging*. 2013 Oct;31(8):1255-62. S0730-725X(13)00218-X. 10.1016/j.mri.2013.06.007. **(PubMed - Impact Factor 2.225)**.

Δ.28. Lavdas, E., Mavroidis, P., Topaltzikis, T., Slatinopoulos, V., Roka, V., Vlachopoulou, A., Papanikolaou, N., (...), Batsikas, G. Comparison of BLADE and conventional T2-TSE sequences for the sagittal visualization of the cervical spinal cord in multiple sclerosis patients - A case report . *Magn Reson Imaging*. 2013 Dec;31(10):1766-70. doi: 10.1016/j.mri.2013.07.008. Epub 2013 Aug 29. **(PubMed - Impact Factor 2.225)**.

Δ.29. Giannaki, C.D., Sakkas, G.K., Karatzaferi, C., Hadjigeorgiou, G.M., Lavdas, E., Kyriakides, T., Koutedakis, Y., Stefanidis, I. Effect of exercise training and dopamine agonists in patients with uremic restless legs syndrome: A six-month randomized, partially double-blind, placebo-controlled comparative study. *BMC Nephrol*. 2013 Sep 11;14:194. doi: 10.1186/1471-2369-14-194. **(PubMed - Impact Factor 1.991)**.

Δ.30. Lavdas, E., Tsougos, I., Arikidis, N., Roka, V, Fezoulidis, I.V, Vlychou, M. Evaluation of fat saturation and contrast enhancement on T1-weighted FLAIR sequence of the spine at 3.0 T . *Clin Imaging*. 2014 Jul-Aug;38(4):428-33. **(PubMed - Impact Factor 1.015)**.

Δ.31. Lavdas E, Tsougos I, Kogia S, Gratsias G, Svolos P, Roka V, Fezoulidis IV, Kapsalaki E. T2 FLAIR artifacts at 3-T brain magnetic resonance imaging. *Clin Imaging*. 2014 Mar-Apr;38(2):85-90. doi: 10.1016/j.clinimag.2013.10.004. PMID: 24359643. **(PubMed - Impact Factor 1.015)**.

Δ.32. Glotsos, D., Vassiou, K., Kostopoulos, S., Lavdas, E (...), Fezoulidis, I.V., Cavouras, D. A modified Seeded Region Growing algorithm for vessel segmentation in breast MRI images for investigating the nature of potential lesions. 2014. *Journal of Physics: Conference Series*

Δ.33. Lavdas, E., Mavroidis, P., Kostopoulos, S., (...), Papanikolaou, N., Batsikas, G. Reduction of motion, truncation and flow artifacts using BLADE sequences in cervical spine MR imaging *Magn Reson Imaging*. 2015 Feb;33(2):194-200. doi: 10.1016/j.mri.2014.10.014. **(PubMed - Impact Factor 2.225)**.

Λ.34. Gratsias G, Kapsalaki E, Kogia S, Dardiotis E, Tsimourtou V, **Lavdas E**, Kousi E, Pelekanou A, Hadjigeorgiou GM, Fezoulidis I.A quantitative evaluation of damage in normal appearing white matter in patients with multiple sclerosis using diffusion tensor MR imaging at 3 T. *Acta., Neurol Belg.* 2015 Jun;115(2). (**PubMed -- Impact Factor 1.495**).

Λ.35. Lavdas, E., Vlychou, M., Zaloni, E., (...), Dailiana, Z., Fezoulidis, I. Elimination of motion and pulsation artifacts using BLADE sequences in shoulder MR imaging. 2015. *Skeletal Radiology.* 2015 Nov;44(11):1619-26. doi: 10.1007/s00256-015-2232-3. (**PubMed - Impact Factor 1.527**).

Λ. 36 Emmanouil I Petrou, Ganesh Narayanasamy, **Eleftherios Lavdas**, Sotirios Stathakis, Nikos Papanikolaou, Bengt K Lind, Panayiotis Mavroidis. Evaluation of the generalized gamma as a tool for treatment planning optimization. *Int J Cancer Ther Oncol* 2014; 2(4):020418. DOI: 10.14319/ijcto.0204.18.(**Impact Factor 0.565**).

Λ. 37 Vassiou K, Kotrogianni F, **Lavdas E**, Vlychou M, Fanariotis M, Arvanitis DL, Fezoulidis IV. Tracheobronchial variations evaluated by multi-detector computed tomography and virtual bronchoscopy. *OA Case Reports* 2013 Mar 01;2(3):23.(**Impact Factor 2.3**).

Λ.38. Kostopoulos SA, Vassiou KG, **Lavdas EN**, Cavouras DA, Kalatzis IK, Asvestas PA, Arvanitis DL, Fezoulidis IV, Glotsos DT. Computer-based automated estimation of breast vascularity and correlation with breast cancer in DCE-MRI images. *Magn Reson Imaging.* 2017 Jan;35:39-45. doi: 10.1016/j.mri.2016.08.007. (**PubMed - Impact Factor 2.225**).

Λ.39. Mavroidis P, Giankou E, Tsikrika A, Kapsalaki E, Chatzigeorgiou V, Batsikas G, Zaimis G, Kostopoulos S, Glotsos D, Ninos K, Georgountzos V, Kavouras D, **Lavdas E**. Brain imaging: Comparison of T1W FLAIR BLADE with conventional T1W SE. *Magn Reson Imaging.* 2016 Dec 7;37:234-242. doi: 10.1016/j.mri.2016.12.007. (**PubMed - Impact Factor 2.225**).

Λ.40. P Mavroidis, N Boci, S Kostopoulos, C Ninos, D Glotsos, G Oikonomou, A Bakas, V Roka, G Sakkas, A Tsagkalis, V Chatzivasileiou, G Batsikas, D Cavouras, N Papanikolaou S Stathakis , **E Lavdas**. Investigation of the possibility to reduce susceptibility artifacts in MRI knee examination. *JMBE.* October 2017, Volume 37, Issue 5, pp 644–652. (**PubMed - Impact Factor 0.989**).

Λ. 41. Mavroidis P, Roka V, Kostopoulos S, Batsikas G, Lavdas E. Arachnoid cysts: the role of the BLADE technique. *Hippokratia.* 2016 Jul-Sep;20(3):244-248. (**PubMed**).

Δ. 42. Sakkas GK1, Tsaknaki E, Rosa CS, Giannaki CD, Krase AA, Lavdas E, Hadjigeorgiou GM, Stefanidis I, Karatzaferi C. The Effect of Cold Dialysis in Motor and Sensory Symptoms of RLS/WED Occurring During Hemodialysis: A Double-Blind Study ASAIO J. 2018 Jan/Feb;64(1):110-114. doi: 10.1097/MAT.0000000000000622. . (PubMed - Impact Factor 2.190).

Δ. 43. Dimitriadou E, Giannaki CD, Tsekoura M, Stefanidis I, Hadjigeorgiou GM, Lavdas E, Karatzaferi C, Sakkas GK. Restless legs syndrome/Willis-Ekbom disease prevalence in beta thalassemia patients. Sleep Breath. 2018 Mar;22(1):175-179. doi: 10.1007/s11325-017-1497-2. Epub 2017 Apr 19. PubMed - Impact Factor 2.288).

Δ.44. Bence T. Gaizer, Katerina G. Vassiou, Eleftherios Lavdas, Dimitrios L. Arvanitis, Ioannis V. Fezoulidis, Dimitris T. Glotsos. Comparative analysis of methods for extracting vessel network on breast MRI images. IOP Journal of Physics: Conference Series (JPCS) Volume 931.

Δ. 45. Gaizer, B.T, Vassiou, K.G, Lavdas, E, Arvanitis, D.L, Fezoulidis, I.V, Glotsos, D.T. Comparative analysis of methods for extracting vessel network on breast MRI images. Journal of Physics: Conference Series. 931(1),012027

Δ. 46. Koukou, V., Martini, N., Valais, I., Kalyvas N, Lavdas E(...), Kandarakis, I., Michail, C. 2017 Resolution Properties of a Calcium Tungstate (CaWO₄) Screen Coupled to a CMOS Imaging Detector . Journal of Physics: Conference Series

Δ. 47. Ana Jurkovic, Esengul Kocak-Uzel, , Abdallah Sherif Radwan Mohamed, Eleftherios Lavdas, Sotirios Stathakis, Nikos Papanikolaou, David C. Fuller, Panayiotis Mavroidis. Dosimetric and Radiobiological Evaluation of Patient Setup Accuracy in Head-and-neck Radiotherapy Using Daily Computed Tomography-on-rails-based Corrections. J Med Phys. 2018 Jan-Mar; 43(1): 28–40. (PubMed - Impact Factor 1.105).

Δ 48. Christos Konstandinou, Dimitris Glotsos , Spiros Kostopoulos , Ioannis Kalatzis, Panagiota Ravazoula, George Michail, Eleftherios Lavdas, Dionisis Cavouras, and George Sakellaropoulos1. Multi feature Quantification of Nuclear Properties from Images of H&E-Stained Biopsy Material for Investigating Changes in Nuclear Structure with Advancing CIN Grade. J Healthc Eng. 2018 Jul 5;2018:6358189. (PubMed - Impact Factor 2.682).

Δ. 49. Dimitriadou E, Giannaki CD, Tsekoura M, Stefanidis I, Hadjigeorgiou GM, Lavdas E, Karatzaferi C, Sakkas GK. Restless legs syndrome/Willis-Ekbom disease prevalence in beta thalassemia patients. Sleep and Breathing, 2018, 22(1), pp. 175–179. . (PubMed - Impact Factor 2.682).

Δ. 50. E. Lavdas, N. Boci, L. Sarantaenna, M. Papaioannou, I. Ntavelis, T. Theodoropoulos, L. Gogou, Investigating the Impact of the Amount of Contrast Material used in Abdominal CT Examinations Regarding the Diagnosis of Appendicolith, P. Mavroidis, Journal of Radiology and Clinical Imaging (2018): 017- 023 **Impact Factor 3.7**

Δ. 51. Konstandinou C, Kostopoulos S, Glotsos D, Pappa D, Ravazoula P, Michail G, Kalatzis I, Asvestas P, Lavdas E., Sakellaropoulos, G. GPU-enabled design of an adaptable pattern recognition system for discriminating squamous intraepithelial lesions of the cervix Biomedizinische Technik, 2019, pp. 315–325.(PubMed - **Impact Factor 1.426**).

Δ. 52. Martini, N., Koukou, V., Fountos, G, Valais I, Kandarakis I, Bakas A, Lavdas E., ...Gogou, L., Panayiotakis, G. Imaging performance of a CaWO₄/CMOS sensor Frattura ed Integrita Strutturale, 2019, 13(50), pp. 471–480. (**Scopus - Impact Factor 1.525**).

Δ. 53. Kaltsatou A, Hadjigeorgiou GM, Grigoriou SS, Karatzaferi C, Giannaki CD, Lavdas E.,...Stefanidis, I., Sakkas, G.K. Cardiac autonomic function during intradialytic exercise training. Postgraduate Medicine, 2019, 131(7), pp. 539–545. (**PubMed - Impact Factor 2.72**).

Δ. 54. Mitrou GI, Giannaki CD, Karatzaferi C, Hadjigeorgiou GM, Lavdas E., ...Stefanidis, I., Sakkas, G.K. Nocturnal activity is not affected by a long-duration, low-intensity single exercise bout. Sports (Basel). 2019 Mar 1;7(3):56. doi: 10.3390/sports7030056. (**PubMed - Impact Score 3.41**).

Δ. 55. Rosa, C.S.C., Giannaki, C.D., Krase, A. Mplekou M, Grigoriou SS, Stefanidis I, Lavdas E., ...Karatzaferi, C., Sakkas, G.K. Effects of 12 months of detraining on health-related quality of life in patients receiving hemodialysis therapy. International Urology and Nephrology, 2020, 52(9), pp. 1771–1778. (**PubMed - Impact Factor 2.12**).

Δ. 56. A.Anastasiou, F.Papastamatia, A.Bakas C.Michail, V.Koukou, N.Martini, K.Ninos, E.Lavdas ...Kandarakis, I., Kalyvas, N. Spatial frequency domain analysis of a commercially available digital dental detector. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107171. (**Scopus - Impact Factor 3.827**).

Δ. 57. Lavdas, E., Papaioannou, M., Papanikolaou, P., ...Roka, V., Mavroidis, P.

Visualization of meniscus with 3D axial reconstructions. *Journal of Medical Imaging and Radiation Sciences*, 2021, 52(4), pp. 519–526. . **(PubMed - Impact Factor 1.113)**.

Δ.58. Karatzas, A., Godevenos, A., **Lavdas, E.** Renal Symptoms and Kidney Impairment Due to Dissecting Abdominal Aortic Aneurysm. *Urology*, 2021, 154, pp. e9–e10. **(PubMed - Impact Factor 2.63)**.

Δ.59. Lavdas, E., Papaioannou, M., Tsikrika, A., ...Kostopoulos, S., Mavroidis, P. Thorax artifacts in CT – Air embolism or other causes? *International Journal of Radiation Research*, 2021, 19(3), pp. 653–659. **(Scopus - Impact Factor 0.779)**.

Δ.60. Grigoriou SS, Krase AA, Karatzaferi C, Giannaki CD, **Lavdas E,**...Stefanidis, I., Sakkas, G.K. Long-term intradialytic hybrid exercise training on fatigue symptoms in patients receiving hemodialysis therapy. *International Urology and Nephrology*, 2021, 53(4), pp. 771–784. **(PubMed - Impact Factor 2.12)**.

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