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Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, Turkey 2018 - 2021

Postgraduate, Istanbul University, Nükleer Fizik, Turkey 2012 - 2016

Undergraduate, Selcuk University, Faculty Of Arts And Sciences, Fizik, Turkey 1997 - 2001

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

Vocational Course, ICTP-IAEA School on Quality Assurance and Dose Management in Hybrid Imaging (SPECT/CT AND PET/CT), ICTP - International Centre for Theoretical Physics ve International Atomic Energy Agency (IAEA), 2018

Vocational Course, Workshop on Internal Dosimetry for Medical Physicists Specializing in Nuclear Medicine, The International Atomic Energy Agency (IAEA), European Federation of Organisations for Medical Physics (EFOMP), ICTP - International Centre for Theoretical Physics, 2016

Vocational Training, College on Medical Physics: Enhancing the Role of Physicists in Clinical Medical Imaging: Procedure Optimization, quality Assurance, Risk Management, Training, ICTP - International Centre for Theoretical Physics, 2016

Health&Medicine, TEMEL RADYASYONDAN KORUNMA, TAEK, 2007

Dissertations

Doctorate, Optimization of organ dose calculation parameters in internal radionuclide treatment, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2021

Postgraduate, 177Lu ile nöroendokrin tümörlerinin tedavisinde radyasyon dozimetrisi / Radiation dosimetry in treatment of neuroendocrine tumors with 177Lu, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2016

Research Areas

Nuclear medicine

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Influencing factors of lung shunt fraction in transarterial radioembolization treatment**
Kovan B., CİVAN C., Isik E. G., Simsek D., Ozkan Z. G., Buyukkaya F., Sanli Y., DEMİR B., Kuyumcu S.
CLINICAL AND TRANSLATIONAL IMAGING, no.2, pp.205-211, 2024 (SCI-Expanded)
- II. **The effects of kilovoltage (kV) and milliampere seconds (mAs) values for SPECT attenuation correction: An anthropomorphic phantom study**
Kovan B.
Applied Radiation and Isotopes, vol.204, 2024 (SCI-Expanded)
- III. **The inferior performance of [⁶⁸Ga]Ga-FAPI-04 PET/CT as a diagnostic and theranostic biomarker in [¹⁷⁷Lu]Lu-DOTATATE refractory well-differentiated neuroendocrine tumors**
Has Simsek D., Guzel Y., Denizmen D., Sanli Y., Buyukkaya F., Kovan B., Komak H., Isik E. G., Ozkan Z. G., Kuyumcu S.
EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING, no.3, pp.828-840, 2024 (SCI-Expanded)
- IV. **Influence of Early Versus Delayed Hepatic Artery Perfusion Scan on ⁹⁰Y Selective Internal Radiation Therapy Planning**
KOVAN B., DENİZMEN D., Civan C., KUYUMCU S., IŞIK E. G., HAS ŞİMŞEK D., ÖZKAN Z. G., POYANLI A., DEMİR B., ŞANLI Y.
CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS, 2024 (SCI-Expanded)
- V. **A multi-institutional assessment of eye lens dose in nuclear medicine clinics.**
Abuqbeith M., Demir M., Işıkci N. I., Kozanlılar B., Kovan B., Yeyin N., Fikret Çermik T., Şanlı Y., Sönmezoğlu K.
Nuclear medicine communications, 2023 (SCI-Expanded)
- VI. **An anthropomorphic body phantom for the determination of calibration factor in radionuclide treatment dosimetry.**
Kovan B., Demir B., Işık E. G., Has Şimşek D., Özkan Z. G., Kuyumcu S., Türkmen C., Şanlı Y.
Radiation protection dosimetry, 2023 (SCI-Expanded)
- VII. **An Analysis for Therapeutic Doses of Patients with Neuroendocrine Tumor Treated with Lutetium 177 (¹⁷⁷Lu)-DOTATATE.**
KOVAN B., ÖZKAN Z. G., DEMİR B., Tuncman D., IŞIK E. G., Simsek D., BÜYÜKKAYA F., TÜRKMEN C., ŞANLI Y.
Cancer biotherapy & radiopharmaceuticals, vol.37, no.1, pp.17-22, 2022 (SCI-Expanded)
- VIII. **Safety of Fibroblast Activation Protein-Targeted Radionuclide Therapy by a Low-Dose Dosimetric Approach Using Lu-177-FAPI04**
Kuyumcu S., Kovan B., Sanli Y., Buyukkaya F., Has Simsek D., Özkan Z. G., Isik E. G., Ekenel M., Turkmen C.
CLINICAL NUCLEAR MEDICINE, vol.46, no.8, pp.641-646, 2021 (SCI-Expanded)
- IX. **Y-90 selective internal radiation therapy and peptide receptor radionuclide therapy for the treatment of metastatic neuroendocrine tumors: combination or not?**
Yilmaz E., Engin M. N., Oezkan Z. G., Kovan B., Bueyuekkaya F., Poyanli A., Saglam S., Basaran M., Tuerkmen C.
NUCLEAR MEDICINE COMMUNICATIONS, vol.41, no.12, pp.1242-1249, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **INVESTIGATION OF CENTERING PROBLEM IN THE CADMIUM ZINC TELLURIDE (CZT) CARDIAC CAMERA**
Mutlu E., Kovan B., Işık E. G., Demir B., Kuyumcu S.
Middle East Journal of Science, vol.9, no.2, pp.57-66, 2023 (Peer-Reviewed Journal)
- II. **Radiation Safety Guide: General Definitions and Radiation Protection Rules in Nuclear Medicine Applications**
Kovan B.
Nuclear Medicine Seminars, vol.6, pp.71-89, 2020 (Peer-Reviewed Journal)

- III. **Acceptance and Quality Control Tests for the Single Photon Emission Computerized Tomography (SPECT) Gamma Cameras and SPECT/CT Systems**
Kovan B.
NUCLEAR MEDICINE SEMINARS, vol.6, pp.38-50, 2020 (Peer-Reviewed Journal)
- IV. **Acceptance Tests and Quality Control of the Positron Emission Tomography (PET) Systems**
Kovan B.
Nükleer Tıp Seminerleri, vol.6, pp.51-70, 2020 (Peer-Reviewed Journal)
- V. **Quality Control Tests of SPECT- CT**
Tunçman Genç D., Kovan B., Demir B., Türkmen C.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMİREL UNIVERSITY FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, vol.14, no.1, pp.39-56, 2019 (Peer-Reviewed Journal)
- VI. **Medical Radiation Safety Process in Case of Changing Medical Condition of Patients Who Received Radionuclide Therapy or Radioactive Substances: Emergency Medical Procedures**
Kovan B.
NUCLEAR MEDICINE SEMINARS, vol.2, pp.168-171, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Nükleer Tıp Prosedürleri İçin Dozimetri Prosedürleri**
Kovan B., Kibar M. (Editor)
in: Nükleer Tıp ve Moleküler Görüntüleme, Prof. Dr. Mustafa Kibar, Editor, Akademisyen Yayınevi Kitabevi, İstanbul, pp.239-247, 2023

Refereed Congress / Symposium Publications in Proceedings

- I. Topal E., Kovan B., Has Şimşek D., Civan C., Şanlı M. Ö., Başaran M., Şanlı Y., Uluslararası Uroloji Araştırmaları Derneği Kongresi (IURES), İstanbul, Turkey, 18 - 20 May 2023, pp.1
- II. **Nükleer Tıpta Görüntü Tekrarına Neden Olan Durumların Değerlendirilmesi**
Işık E. G., Papakçı Ö., Kovan B., Arslan D. F., Denizmen D., Şanlı Y., Mudun A.
35. ULUSAL NÜKLEER TIP KONGRESİ, Antalya, Turkey, 26 - 30 April 2023, pp.103
- III. **The Effect Of Spillover Artefact And Pulmonary Movement To The Calculation Of Hepatopulmonary Shunt Ratio**
Kovan B., Ozkan Z. G., Karabacak M. N., Yılmaz E., Poyraz L., Demir B., Poyanli A., Turkmen C., Mudun A.
31st Annual Congress of the European-Association-of-Nuclear-Medicine (EANM), Düsseldorf, Germany, 13 - 17 October 2018, vol.45
- IV. **Lu-177 PSMA ile prostat kanseri tedavisinde kritik organ dozlarının karşılaştırılması**
Kovan B., Yılmaz E., Kovan H., Özkan Z. G., Poyraz L., Büyükkaya F., Demir B., Mudun A., Türkmen C.
29. Ulusal Nükleer Tıp Kongresi, Antalya, Turkey, 10 May 2017, pp.12-13
- V. **Nurse Exposure Doses Resulted From Bone Scintigraphy Patient**
Tuncman D., Kovan B., Poyraz L., ÇAPALI V., Demir B., Turkmen C.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
- VI. **Tc-99m MAA sintigrafisi ile Y-90 mikroküre tedavi planlanmasında hepatopulmoner şant oranının hesaplanması için planar ve SPECTBT görüntüleme yöntemlerinin karşılaştırılması**
Kovan B., Özkan Z. G., Kovan H., Yılmaz E., Poyraz L., Büyükkaya F., Demir B., Mudun A., Türkmen C.
29. Ulusal Nükleer Tıp Kongresi, Adana, Turkey, 01 April 2015, pp.48
- VII. **Gamma radiation exposure of accompanying persons due to Lu-177 patients**
Kovan B., Demir B., Tuncman D., ÇAPALI V., Turkmen C.

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT), Osmaniye, Turkey, 23 - 26 April 2015, vol.100

VIII. **A systematic quality assurance study in bone densitometry devices**

Tuncman D., Kovan H., Kovan B., Demir B., Turkmen C.

International Workshop on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT), Osmaniye, Turkey, 23 - 26 April 2015, vol.100

Scientific Consultations

TUBİTAK, Project Consultancy, Istanbul University, Istanbul Medical Faculty, Division Of Medical Sciences , Turkey, 2023 - Continues

Metrics

Publication: 24

Citation (WoS): 57

Citation (Scopus): 56

H-Index (WoS): 3

H-Index (Scopus): 3

Awards

Kovan B., Işık E. G., Özkan Z. G., Demir B., Şanlı Y., Kuyumcu S., Türkmen C., TNTD Prof. Dr. Suphi Artunkal Ödülü, Türkiye Nükleer Tıp Derneği, March 2022