

P44. CHRONIC RADIODERMATITIS BY THE OCCUPATIONAL RADIATION ACCIDENT

Eylem DOGDU ŞAHİN ¹, Aslı AYTEKİN ¹, Meşide GÜNDÜZÖZ ¹, Engin TUTKUN ¹,
Ömer Hınç YILMAZ ¹

¹Ankara Occupational Disease Hospital Ankara, TÜRKİYE

Radiodermatitis, also known as radiation dermatitis can be either acute or chronic. The skin at the beam entrance place receives maximal radiation. Radiation-induced injury occurs instantaneously and it manifests as erythema, hair loss, dry or moist desquamation, erosion or sometimes bullous reaction.

Ir¹⁹² (iridium) source was commonly used in gammagraphic camera for industrial purpose. Ir¹⁹² source gammagraphic cameras are commonly used to check the integrity of welds in oil and gas pipes. A 27 year old male was industrial radiographer for 3 years. He wasn't educated for protective measures for ionizing radiation and did not wear protective gloves, eye glasses or clothes. He experienced an accidental exposure to ionizing radiation by Ir¹⁹² during taking radiograph of natural gas pipes. In acute stage, his left finger became erythematous with blistering reaction and he complained about severe pain, numbness with tingling sensation and edema of the finger. Left finger of him was exposed repeatedly to radiation and cutaneous findings with fibrotic sequel were developed. We described a case of occupational chronic radiodermatitis by Ir¹⁹² source.

Patients with radiodermatitis also must be checked for systemic radiation injury and systemic cancer. Iridium 192 as a part of an industrial gammagraphy device was the source of accidental exposure in our patient. Ionizing radiation using industries should be aware of risk of accidental exposures. The workers such as industrial radiographers should be informed before beginning the work for protective measures. The safety parameters for ionizing sources must be checked.