

"X Ray radiation lesions as complications of Interventional Procedures assisted in the Burns Hospital of Buenos Aires."



Radiopathology Committee

DR. MERCEDES PORTAS

HOSPITAL DE QUEMADOS "Dr. Arturo Umberto Illia"
GOBIERNO DE LA CIUDAD DE BUENOS AIRES

Procedures can deliver high radiation doses to patient skin, some patients develop cutaneous radiation syndrome (CRS). Physical and patient-related factors that contribute to an increased clinical toxicity include location of the irradiated skin, high individual radiosensitivity, obesity, and smoking habit

Radiotoxicity- Skin lesions- EORTC/RTOG

Grades	Acute radiotoxicity : < 90 días	Chronic radiotoxicity: > 90 días	Grades	Acute radiotoxicity : < 90 days	Chronic radiotoxicity: > 90 days
1	Erythema Epilation itching Dry desquamation	Atrophy Pigmentary changes Partial loss of hair	3	Confluent moist desquamation Severe edema	Confluent areas of marked atrophy Telangiectasias
2	Erythema Wet desquamation Edema	Moderate atrophy Telangiectasia Partial loss of hair	4	Bleeding Ulceration Necrosis	Ulceration Bleeding

Groups 1 and 2 :

Favorable evolution complete local remission between 5 and 12 months of treatment .
Ultrasound does not show muscle involvement .
Interfaces are thickened .
There is a good vascular response to treatment particularly in the perilesional areas showing centripetal healing

Groups 3 and 4:

When the protocol is interrupted radiation injuries decreases the latency period .
Recurrent exacerbation crisis due to inflammatory waves.
Pain related to Ischemia phenomena is manifested

Protocol applied

Local injury treatment : Silver sulfadiazine +lidocaine + vitamin A

Systemic Treatment: Free radical treatment: oral antioxidants : Vitamine E 400 U.I. /a day.

Enderteritis Obliterans : oral pentoxifylline 400 mgs/a day

Conclusions :

The possibility that a cutaneous radiation syndrome appears depends on the difficulty of the procedure and their sensitivity to radiation due to previous procedures , disease or genetic predisposition

Let the patient know that if a complication occurs, it can be treated by a team of experts and that there is a protocol for treatment of radiation injuries proved scientifically and internationally approved

Implement a database containing studies:

- Ultrasonography
- Eco-Doppler
- Teletermography
- Magnetic Resonance Imaging
- Report of Radiosensitivity test
- Study of chronic markers|