PHOTOBIOMODULATION THERAPY TO TREAT A RARE PHENOMENON OF RADIATION RECALL REACTION IN A PATIENT WITH CERVICAL CANCER: A CASE REPORT

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Introdution

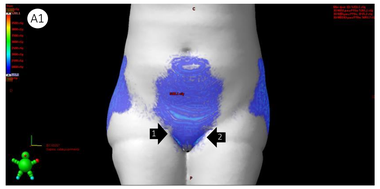
- Radiation Recall Reaction (RRR) is characterized by an acute inflammatory response
- Occurs in tissue previously exposed to radiotherapy (RT)
- It is a rare and poorly understood phenomenon [1-10]

Methods

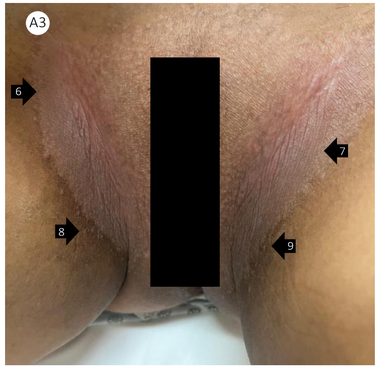
- Case report
- CARE guideline [11]

Case Report

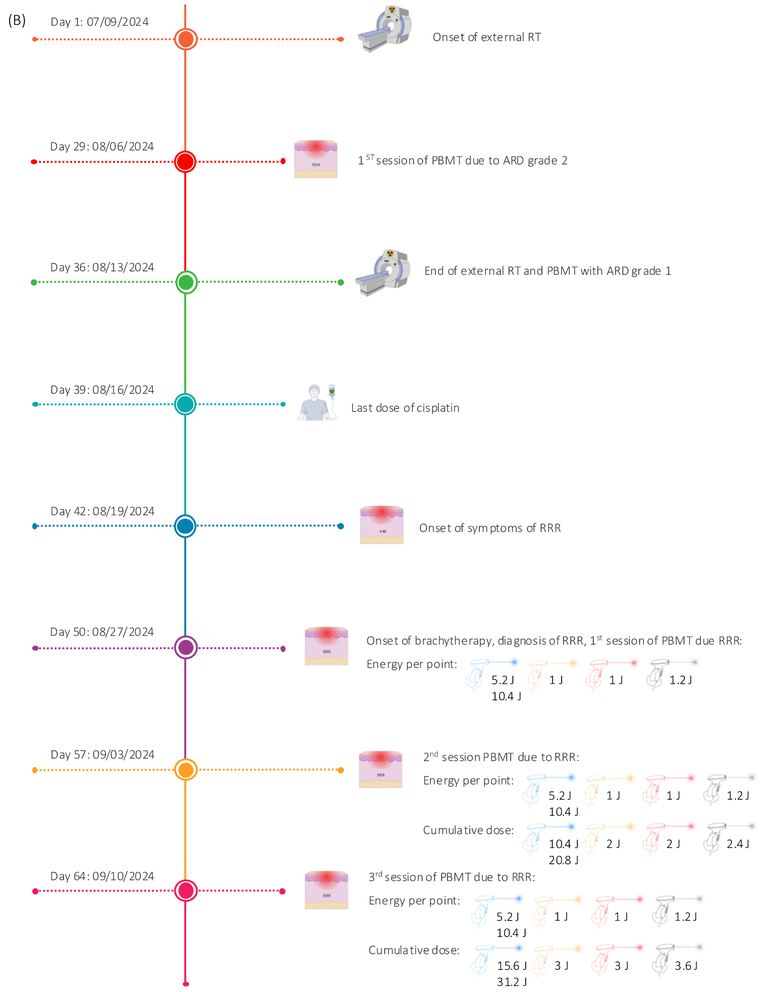
- A 36-years-old Brazilian woman with cervical cancer
- Treated with RT and chemotherapy
- Diagnosed with RRR affecting the vaginal and anal mucosa and skin of the inguinal region
- Triggered by cisplatin
- RRR treated with photobiomodulation therapy (PBMT)



(A1) RT plan in the coronal plane
(A2) RT plan in the sagital plane



(A3) Dry desquamation in the inguinal region fully healed after 1st session of PBMT



(B) Patient timeline from the start of RT to the last PBMT session

Conclusion

- This case report suggested that PBMT can be a safe, non-invasive, low-cost, non-thermal alternative treatment to RRR
- Further clinical studies are needed

References