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Hyperbaric oxygen therapy improves the effect of keloid surgery and radiotherapy by reducing the recurrence rate

Key words: Keloids, Hyperbaric oxygen therapy, Surgical excision, Radiotherapy, Recurrence rate

Research Summary

The primary aim of this study was to assess the efficacy and mechanism of hyperbaric oxygen therapy (HBOT) to reduce the keloid recurrence rate after surgical excision and radiotherapy.



- Patients received HBOT after surgical excision and radiotherapy.
- IL-6, HIF-1α, TNF-α, NF-kB, and VEGF were detected in recurrent keloid tissue.



Innovation points

- Adjunctive HBOT effectively reduces the keloid recurrence rate after surgical excision and radiotherapy
- HBOT improves the oxygen level of the tissue
- HBOT alleviates the inflammatory process

