

EP-153

원통형 무세포진피기질을 이용한  
방사선 치료 후 상외측 유방 함몰  
교정: 증례 보고

(Correction of Post-Radiation Upper Lateral Breast Depression Using Cylindrical Acellular Dermal Matrix: A Case Report)



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**Purpose:** Postmastectomy radiation therapy (PMRT) following two-stage breast reconstruction can induce soft tissue fibrosis and volume contraction, resulting in localized contour deformities. We report successful correction of radiation-associated upper lateral breast depression using a cylindrical acellular dermal matrix (ADM) during expander-to-implant exchange.

**Methods:** Postmastectomy radiation therapy (PMRT) following two-stage breast reconstruction can induce soft tissue fibrosis and volume contraction, resulting in localized contour deformities. We report successful correction of radiation-associated upper lateral breast depression using a cylindrical acellular dermal matrix (ADM) during expander-to-implant exchange.

**Results:** The previously depressed contour demonstrated marked improvement (Fig. 4). The patient was discharged on postoperative day 1 without any perioperative complications. During follow-up, no adverse events related to the ADM, including infection or contour irregularities, were observed, and the restored volume was well maintained.

**Conclusion:** Radiation-induced contour depression following two-stage breast reconstruction can be effectively corrected with cylindrical ADM insertion at the time of expander-to-implant exchange. This technique provides localized structural support without additional donor-site morbidity and offers a simple and reliable option for managing PMRT-related contour deformities.

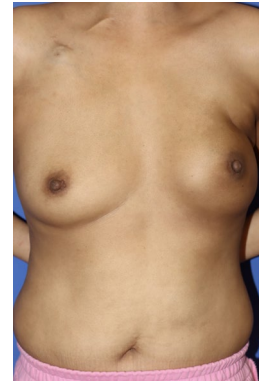


Figure 1. Preoperative photograph showing a visible depression in the upper lateral portion of the left breast.



Figure 2. Cylindrical acellular dermal matrix (Surederm®; HansBiomed Co., Ltd., Seoul, Korea) used in this case, measuring 5 cm in diameter and 1 cm in thickness.



Figure 3. Intraoperative photograph demonstrating placement and fixation of the cylindrical acellular dermal matrix in the area of contour deformity.



Figure 4. Postoperative photograph obtained 2 weeks after surgery, showing improvement of the upper lateral contour deformity.