Breast Augmentation Using the Spectrum Implant with Exteriorized Injection Domes

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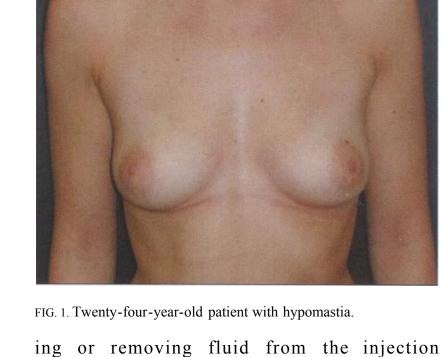
The author describes the use of implants with exteri- orized injection domes for patients undergoing breast augmentation. Domes were exteriorized for 1 to 5 days to allow the implant volume to be altered in the early post- operative period. Thirty-three patients were treated with- out any infections. (Plast. Reconstr. Surg. 114: 1617, 2004.)

The use of implants with exteriorized

injec- tion domes for patients undergoing breast aug- mentation for complaints of hypomastia is pre- sented (Fig. 1). Using technique, the domes this exteriorized for 1 to 5 days, thereby allowing the volume of the implant to be altered in the early postoperative period. The advantage of this technique is that the injection dome can be removed a few days after surgery without the need for surgical removal. This technique was used in 33 cases without any infections.

METHODS Breast augmentation is performed in the

using standard subpectoral fashion Spectrum implant The (Fig. 2). inframammary, transaxillary, circumareolar incision is used. At the completion of the procedure, the fill tube of the spectrum implant is attached to a trocar (Fig. 3) and exteriorized through a long subcutaneous tunnel. The injection dome is then fill attached the tube revised February 9, 2004.



dome (Figs. 5 and 6). The injection dome

with at- tached fill tube is removed 1 to 4 days after surgery in most cases (Fig. 7). Diagrams are presented in Figures 8 through 11. **RESULTS** The technique was used in 33 consecutive

cases in a 2-year period. Patients were

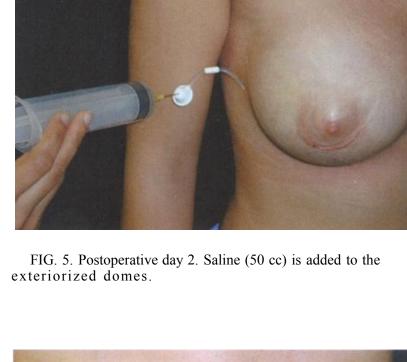
grateful that they were able to participate in postoper- ative volume adjustment and were pleased with the final results (Figs. 12 and 13). Implant sizes ranged from 225 cc to 425 cc. Seventy-nine percent of 33 patients had 20 cc to 100 cc of fluid added to their

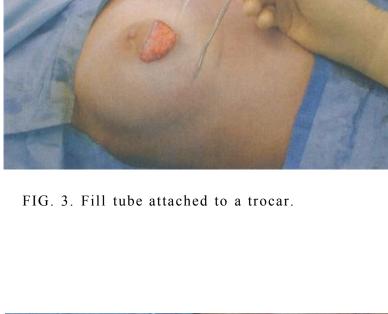
From the Boca Raton Community Hospital, Boca Raton Outpatient Surgery and Laser Center. Received for publication June 19, 2003; Dr. Becker owns a part interest in a company that receives royalties from Mentor Corporation for the adjustable implants. 1617

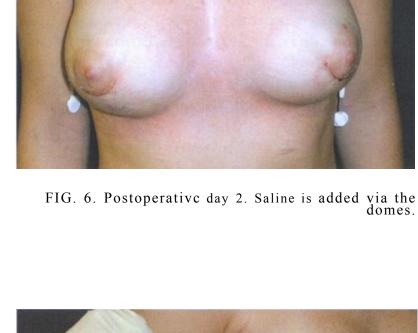
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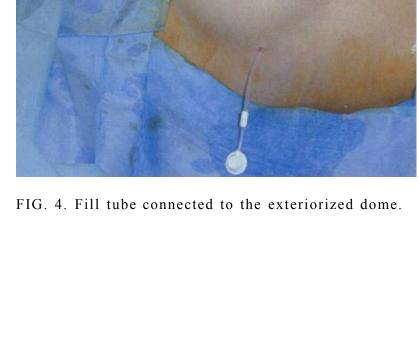
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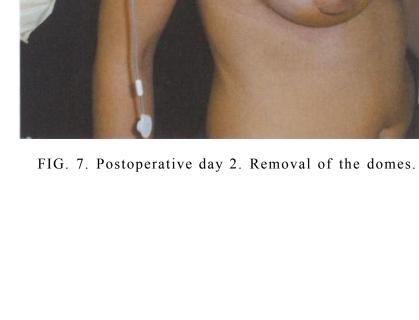














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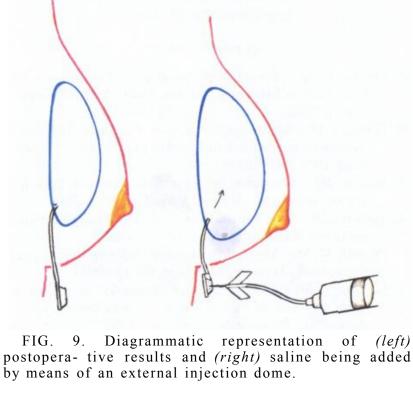


FIG. 8. Diagrammatic representation of intraoperative

had no fluid added, and 9 percent (of the 33 patients) had 50 cc and 60 cc removed



result of retrograde infection from the injection dome. There have been no leakages following injection dome removal. The only has been early postoperative problem

asymmetry as a result of seroma around the

implants, which may lead to confusion as to

postoperative volume adjustment.

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bilater- ally postoperatively. For 10 patients, the exte- riorized domes were removed on

the first post- operative day; for 20 patients,

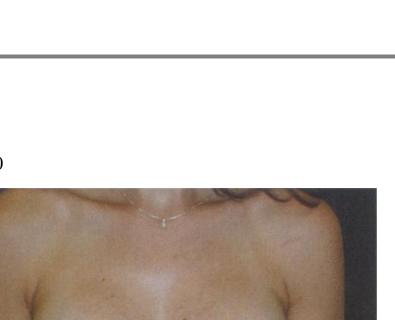
the domes were removed on the second,

third, or fourth post-operative day (nine,

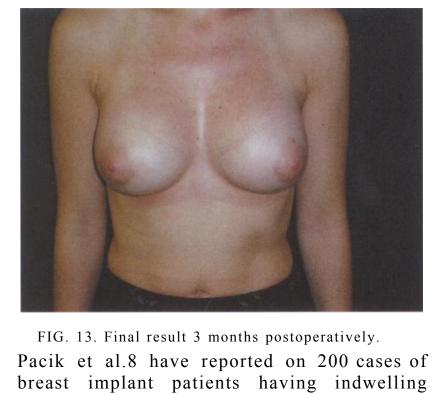
five, and six patients, re- spectively). One

No complications have been seen as a

dome was removed on postop- erative day 5.



subcutaneous



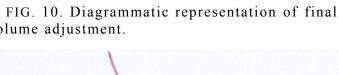
pain control catheters for 24 to 48 hours

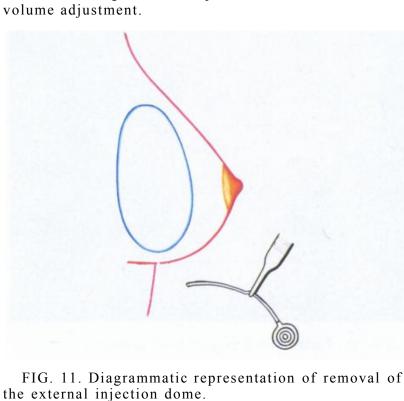
without any infection. In this series, the

majority of domes are removed in 48 hours.

By placing the injection dome through a long

FIG. 12. Result on postoperative day 2.





faction with size is very common. The use of adjustable implants largely overcomes this problem.2-4 A second minor procedure is nec- essary, however, to remove the injection

dome. It was therefore decided to externalize

the in- jection dome based on the work of

Jackson and others.5-7 They describe the

exteriorization of the expander injection

domes for 10 to 76 days without any

infection. This concept is further supported

by the fact that many surgeons rou-tinely

place drains into the implant pocket without

concern for retrograde infection.

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unilateral swelling may be deceptive.

tunnel, retrograde infection is averted. Care must be taken not to attempt to correct unilat- eral asymmetry postoperatively, as

CONCLUSIONS The advantage of postoperative volume adjustment via an externalized injection dome

demonstrated. Although the

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been

patient requests for implant size change.'

DISCUSSION

Approximately 25 percent of patients

under- going breast augmentation undergo a

replace- ment operation within 5 years. A

large percent- age of these are the result of

After breast augmentation, patient dissatis-

implant vol- ume compared with the buried injection dome technique, the buried injection dome tech- nique is still preferred. In a series of 33 pa-tients, there was no

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occurrence of retrograde infection.

external dome limits the ability to control

Boca Raton, Fla. 33486 hbeckermd@msn.corn REFERENCES 1. Mentor Corp. Breast augmentation: Is it right for vou? Information brochure. Goleta, Calif.: Mentor Corp., March 2002. 2. Hidalgo, D. Breast augmentation: Choosing the opti- mal incision, implant and pocket plane. Plast. Reconstr. Surg. 105: 2202, 3. Becker, H. Adjustable breast implants provide postop- erative versatility. *Aesthetic*

Persoff, M. M. Vertical mastopexy with expansion aug- mentation. Aesthetic Plast. Surg. 27: 13, 2003. Jackson, I., Sharpe, D., Polly, J., Costanzo, C., and Rosen-berg, L. Use of external reservoirs

I.

15: 79, 1992. Pacik, P., Werner, C., Jackson, N., and Lobsitz, C. control augmentation in mammaplasty: The use of indwelling catheters in 200 consecutive patients. Plast. Reconstr. Surg. 111: 2003, 2090.

in tissue expan- sion. Plast. Reconstr. Surg.

reconstruction with pro- longed over

Immediate

breast

Surg. J. 20: 332, 2000. 4. Springer, R. The adjustable saline augmentation mam- moplasty. Plast. Surg.11Nurs. 19: 19, 1999.

80: 266, 1987.

Jackson,

5.

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8.

expansion using the Becker permanent expander prosthesis. Eur. J. Plast. Surg.

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