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Breast reconstruction using scaffold synthetic or biological

Immediate breast reconstruction has become a standard of care following mastectomy for cancer. Breast surgery affects the daily and the social life of a woman as well as her job and her relationships. Implant reconstruction (expander or prosthesis) permits a rapid recovery, fewer days of hospitalization, less morbidity and it suits the most part of patients. The positioning of a mammary prosthesis or expander, after the mastectomy, is generally associated to the use of biological or synthetic scaffold to enhance lateral breast shape and provide total coverage of the prosthesis. After trying some different materials we have activated a case-control study using data collected from January 1, 2012 to December 31, 2013 by enrolling 206 immediate breast reconstructions performed in 196 patients using a polyester mesh. No significant differences between two groups occurred for early postoperative complications, major complications that required surgical revision, volume or width of the prosthesis. The use of the scaffold from an aesthetic point of view has greatly improved breast shape especially in the lateral side. We are currently trying an acellular tissue matrix support from bio bank used as foil or mesh to check the speed of integration with the subcutaneous tissue in the lateral portion of the reconstructed breast.

Biography

Pier Luigi Santi has graduated in medicine and Surgery University of Genova (1974) at age 25 and he is specialist in Plastic and Reconstructive Surgery University of Milan 1977 and Oncology University of Messina 1986. Full professor University of Genova, Director of Plastic and Reconstructive department, IRCCS Cancer Institute, Genova since 1994. He has published more than 300 papers and some book chapters. Coordinator of courses and conferences national and international.

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