



POLYTECH IMPLANTS

better results,
fewer complications

DR MARIO PELLE CERAVOLO SAYS POLYURETHANE IMPLANTS ARE THE ONLY IMPLANT FOR SUPERIOR QUALITY AND SAFETY.

Polyurethane-covered implants were born in the 1960s and designed to counter the frequent complication of capsular contracture. Today, the German-made brand of Microthane implants are manufactured by POLYTECH Health & Aesthetics, a company known for their high product standards, quality and reliability.

Italian plastic surgeon Dr Mario Pelle Ceravolo says POLYTECH micropolyurethane implants offer a range of benefits for both the patient and the practitioner and are his implant of choice.

"In my opinion, polyurethane is much more reliable than any other implant in terms of consistency of results, predictability of implant position and avoidance of capsular contraction," he says.

JT Medical is the distributor of POLYTECH implants in Australia and New Zealand. Manufactured and packaged in Germany, POLYTECH micropolyurethane breast implants are known to produce beautiful results with a natural look and feel and a lower risk of complications.

Safety & clinical trials

Polyurethane-covered breast implants have a highly structured outer surface, which has been associated with low displacement and capsular contracture rates.

"The early postoperative adherences that the polyurethane membrane creates between the implant and the surrounding tissues allows an immediate fixation of the prosthesis, avoiding the risk of displacement," explains Dr Ceravolo. "The capsular contracture rate of polyurethane implants has been proven through long-term studies in the literature to be much lower than any other implants."

The Vázquez¹ study from Argentina confirms a 17 times lower complication rate with polyurethane-coated implants compared with conventional smooth and textured implants.

Further extensive clinical studies² have depicted the capsular contracture rate for polyurethane-covered implants in virgin tissue as 0 to 9% compared with 9 to 50% for other implants. In most of the large studies, the capsular

contracture rate for polyurethane implants is as low as 0 to 3%.

When collagen fibres form around an ordinary implant, the orientation of these fibres can contract, making the implant hard. This is not the case with polyurethane implants. The morphological three-dimensional structure of the polyurethane coating causes the collagen fibres to interweave and avoids their two-dimensional alignment.

An extensive long-term study³ conducted in the United States confirms the significant reduction of the risk for capsular contracture with polyurethane-covered implants for up to 10 years after implantation. The statistics reveal that after eight years the capsular contracture rate with polyurethane implants is 15 percent lower compared with textured implants, and 30 percent lower compared with smooth implants.

Polyurethane implants not only have been shown to have a significantly lower risk in capsular contracture but the polyurethane coating also helps resist rotation, a common problem with anatomical implants. It also prevents excessive friction between the implant and the surrounding tissue, thereby reducing complications such as haematoma and seroma formation.

POLYTECH is currently the only manufacturer of implants with this type of surface, and studies⁴ prove that its Microthane[®] implants reduce the risk for capsular contracture not only in primary augmentation but also in 2-stage breast reconstruction, even after radiation.

Stability & aesthetics

The shell of POLYTECH implants is comprised of several layers of silicone and a diffusion barrier, designed to prevent the gel from permeating through the shell into surrounding tissue. The medical-grade silicone gel used to fill

POLYTECH implants is form-stable and returns to its original shape after moderate mechanical impact. In terms of tactility and movement, it is designed to closely resemble the natural breast.

In addition to implants with Microthane[®] surface, POLYTECH offers a variety of textures and shapes to meet the demands of all patient groups, including a wide range of unusual shapes or sizes on request, there is a solution for every patient who walks through your practice doors.

"Since polyurethane implants perfectly preserve their shape and are not influenced by the reactions of the patient's body, we can foresee exactly the shape the breast will

• POLYTECH IS MORE RELIABLE THAN ANY OTHER IMPLANT IN TERMS OF CONSISTENCY OF RESULTS AND AVOIDING CAPSULAR CONTRACTURE •

have and offer our patients a result that closely meets their expectations," says Dr Ceravolo.

"In order to obtain the best result, not only the professionalism and the expertise of the surgeon are important but also the quality of the materials used," he says. "Patients do not like the idea that the implants may move, change position, rotate or become hard, so they love listening to the guarantees that POLYTECH implants offer."

The difference with POLYTECH is you can now have even greater confidence that over time your patients' breasts will remain the

way you have designed and sculpted them. "I find the predictability of the implant position, combined with the different implant shapes available, create natural-looking results," says Dr Ceravolo. "Furthermore, the characteristics of some specific implants in the range (like the dual-gel) may avoid creating artificial bulges in the upper breast pole in patients with limited tissue coverage."

Although there is a learning curve behind using the POLYTECH implants, in terms of greater surgical precision, planning and more acute clinical judgement, the benefits for patients and surgeons alike are immense.

"In my opinion, polyurethane implants are currently underused. Their use is not widespread because of the higher cost and higher level of technical skills required from the surgeon, but they have almost completely wiped out the risks of breast hardening and shape alteration due to implant rotation," explains Dr Ceravolo.

"Implants become part of a woman's body and stay there for a long time: it is of utmost importance that they are the best type available." **AMP**

1. Vázquez, G. (2007): Polyurethane-Coated Silicone Gel Breast Implants Used for 18 Years
2. Handel, 1991; Pennisi, 1990; Shapiro, 1989; Hester et al., 2001; Baudelot, 1989; Gasperoni, 1992; Hermann, 1984; Eyssen, 1984; Schatten, 1984; Artz, 1988
3. Handel, N. (2006): Long-Term Safety and Efficacy of Polyurethane Foam-Covered Breast Implants
4. Pompei et al. (2016): The Modern Polyurethane-Coated Implant in Breast Augmentation: Long-Term Clinical Experience; Pompei et al. (2016): Polyurethane Implants in 2-Stage Breast Reconstruction

POLYTECH breast implants are distributed in Australia by JT Medical. Call 1300 841 446 or visit www.jtmedical.com.au