B-Lite® Media Backgrounder

B·Lite® introduction

B·Lite®, the world's first and only lightweight breast implants, are the product of 10 years of research, development and extensive testing. The implants received their CE certification in 2013. The proprietary design enables considerably reduced implant weight - up to 30% less than traditional silicone breast implants, while supporting the desired shape, feel and volume of the augmented breast.
In July 2018 the company (G&G Biotechnology) merged with POLYTECH Health & Aesthetics, incorporating B·Lite® Lightweight breast into the POLYTECH portfolio.
B·Lite® implants are available through leading plastic surgeons throughout Europe and Asia.

Technology

The B·Lite® technology combines well documented, safe, inert and biocompatible materials in an innovative way, while benefitting from their established safety profile and long history of use in medicine.
B·Lite® implants use the standard POLYTECH silicone shell, filled with the B·Lite® gel - microsphere enhanced cohesive, medical grade silicone gel. The B·Lite® microspheres are inert, ultra-high-purity hollow borosilicate microspheres. The B·Lite® gel incorporates space technology and has an excellent safety profile and characteristics, offering significantly less weight while supporting a natural look and feel. Microspheres are biocompatible and used in all kinds of medical devices e.g. in orthopaedics, the dental industry, ophthalmology and neurosurgery.
B·Lite® implants come with a POLYTECH standard shell, which have been used successfully in hundreds of thousands of women over the last 30 years; their safety is very well documented.

Why was B·Lite® developed?

Breasts are organs composed mostly of glandular tissue and fat, supported by relatively weak suspensory ligaments called Coopers ligaments. Age, hormonal changes, weight gain, weight loss, pregnancy, lactation and other factors all decrease the quality and integrity of our elastic tissues. The weight of the breast pulled by the relentless forces of gravity contributes to further sagging and poor aesthetic satisfaction. These effects are further exacerbated by the breasts' daily movements and repetitive stretching, where movement amplitude is directly related to breast weight.
Gravitational forces on the augmented breast, directly proportional to implant weight, expose the breast tissue and suspensory ligaments to mechanical stress, consequently translated to dynamic creep deformation - the ongoing change to the tissue of an augmented breast due to the constant forces exerted on the tissue by the implant. Long-term effects of gravity are associated with clinical implications including breast tissue atrophy, accelerated ptosis, sensory loss, and inframammary fold breakdown. Contrary to long-standing dogmas, breast implant weight, rather than volume, is one of the leading factors triggering these post-operative complications and side-effects. A lightweight breast implant can potentially enhance patient safety and comfort by reducing the gravitational forces on the breast tissue and skeletal frame.

How was B·Lite® developed?

B·Lite® Lightweight Breast Implants were developed by G&G Biotechnology Ltd., who's founders are Dr. Jacky Govrin-Yehudain, a plastic surgeon with long term experience in breast augmentation surgery, and his brother Dael Govreen Segal, a biomedical engineer. Having realized that the weight of breast implants was a major contributor to many of the side effects experienced over time by women with augmented breasts, the brothers set out to develop a lightweight breast implant that would meet both patients and surgeons' expectations.
A multidisciplinary team of doctors, biomedical engineers, chemists and biologists were recruited to develop the world's first lightweight breast implant and almost 10 years later B·Lite® Lightweight Breast Implants were introduced.