



WristArt Implant by Fibioseq Medical

# Fibioseq Medical Conducts First-in-Patient Wrist Restoration Using its WristArt Implant



## [Fibioseq Medical Ltd](#)

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**The WristArt Implant restores close-to-natural movement in patient's wrist and hand, while alleviating the pain, swelling and loss of motion, through a streamlined surgical procedure.**

Fibioseq Medical Ltd (Acre, Israel), a pioneering developer of orthopedic upper extremity implants, proudly announces the initiation of its first-in-human clinical study and the completion of the first surgery with WristArt. This marks a significant milestone in the field of wrist joint restoration. The groundbreaking procedure involves the implantation of WristArt, a wrist implant designed to alleviate pain, restore motion, and promote independence in individuals suffering from chronic and debilitating wrist conditions.

Fibioseq Medical developed WristArt, a game-changer in wrist prosthetics that redefines the upper extremity implant industry landscape. With a primary focus on maintaining the original biomechanics of the wrist, Dr. Lauren Gorelick, an orthopedic hand surgeon and Fibioseq's Chief Medical Officer, applied principles from the Fibonacci theory to pioneer this groundbreaking innovation. This approach led to the creation of a unique design that optimizes load distribution and features two centers of rotation to closely mimic the natural wrist joint. As a result, WristArt not only offers improved stability but also enables a near-to-normal range of motion.



Dr. Amir Oron, Head of Orthopedic Surgery at Kaplan Hospital in Rehovot, conducted the first-in-patient total wrist replacement using Fibioseq Medical's WristArt Implant.

Dr. Amir Oron, Chief of the Hand Surgery Unit at Kaplan Medical Center, who conducted the first-in-human WristArt transplant, emphasized the significance of the procedure, stating, "The procedure went smoothly per the surgical technique; the implant and the tools kit are easy to use; and the device was fully and successfully implanted. Three months following the procedure, the new prosthesis, designed with two centers of rotation, closely mimics the natural movement of the wrist joint, offering the patient a significant improvement in functionality with no pain"

Commenting on the successful implantation, Harel Manor, CEO of Fibioseq Medical, remarked, "I believe that WristArt has the potential to transform the lives of countless individuals worldwide, providing them with a natural and effective solution for wrist joint restoration.

“In refining our approach towards clinical advancements, Fibioseq Medical emphasizes the development of WristArt with a keen focus on its less invasive nature and its capability to preserve more of the patient's natural tissue. Thus, WristArt aims to minimize potential complications and support a quicker return to daily activities for those suffering from wrist joint conditions.”

The first Total Wrist Arthroplasty surgery with WristArt was performed at the Kaplan Medical Center (Clalit Group) in Rehovot, Israel. The patient, a 57-year-old male, had suffered from severe post-traumatic wrist osteoarthritis, and was very limited in all daily activities. Within days of receiving the WristArt implant, the patient expressed a significant reduction in pain. After three months, the patient is without pain, has resumed free movement of the wrist and hand, and has returned to routine, including work and his favorite hobbies.



X-rays of the Wrist-Art Implant

The wrist plays a crucial role in daily activities. Symptoms of arthritis, including pain, swelling, stiffness and loss of motion, significantly impact quality of life. Despite continued advances in implant design and surgical technique, complications stemming from fusion of bones, elimination of degrees of freedom and excessive carpal and radial bone removal are frequent and devastating.

Today, most surgeons are hesitant to perform Total Wrist Arthroplasty (TWA), despite being a motion-preserving alternative, and opting instead for arthrodesis (wrist fusion), with the latter being performed nearly five times more often. Traditional TWA surgery involves significant bone removal and fusion of most carpal joints, altering wrist biomechanics and potentially resulting in loosening, pain and poor functionality.

In contrast, WristArt is implanted using a surgical technique that prioritizes the preservation of wrist integrity. This method conserves most of the carpal bones, avoids bone fusion, and sets a new standard for minimal invasion to the radial bone, reducing risk of bone necrosis.

The advancements of the WristArt design offer surgeons and patients a promising, long-lasting surgical alternative that can alleviate pain and restore functionality.

**About Fibioseq Medical Ltd.** <https://fibioseq.com>

Fibioseq Medical Ltd. develops orthopedic extremity implants, designed to alleviate pain, restore natural motion and promote independence in individuals who suffer from chronic and debilitating conditions due to disease, injury and aging. The Company's first product is the WristArt Implant. Fibioseq Medical holds registered patents in the United States, Europe, China and Israel.