

The background of the page is a wireframe grid that follows the contours of a human arm and hand, rendered in a light purple color. The grid is composed of thin lines that create a mesh-like structure, giving a sense of depth and form.

art  **ryS**

Regenerative peptides

Regenerative peptides

Arthrys is a new medical device based on low molecular weight collagen peptides (LWPs). It is a ready-to-use injectable solution for the intra-articular treatment of osteoarthritis and structural strengthening of connective tissues.

Conservative options for the treatment of osteoarthritis usually involve the use of NSAIDs and intra-articular injections of hyaluronic acid, a molecule available in a wide range of molecular weights that helps to improve the viscosity and elasticity of synovial fluid.

Alternatively, patients can exploit autologous platelet concentrates or autologous purified adipose tissue, which are attractive regenerative medicine methods that require lengthy preparation times and, in the case of adipose tissue, invasiveness in the collection.

Unlike all other treatments, Arthrys acts directly on the cartilage extracellular matrix and all other articular structures.

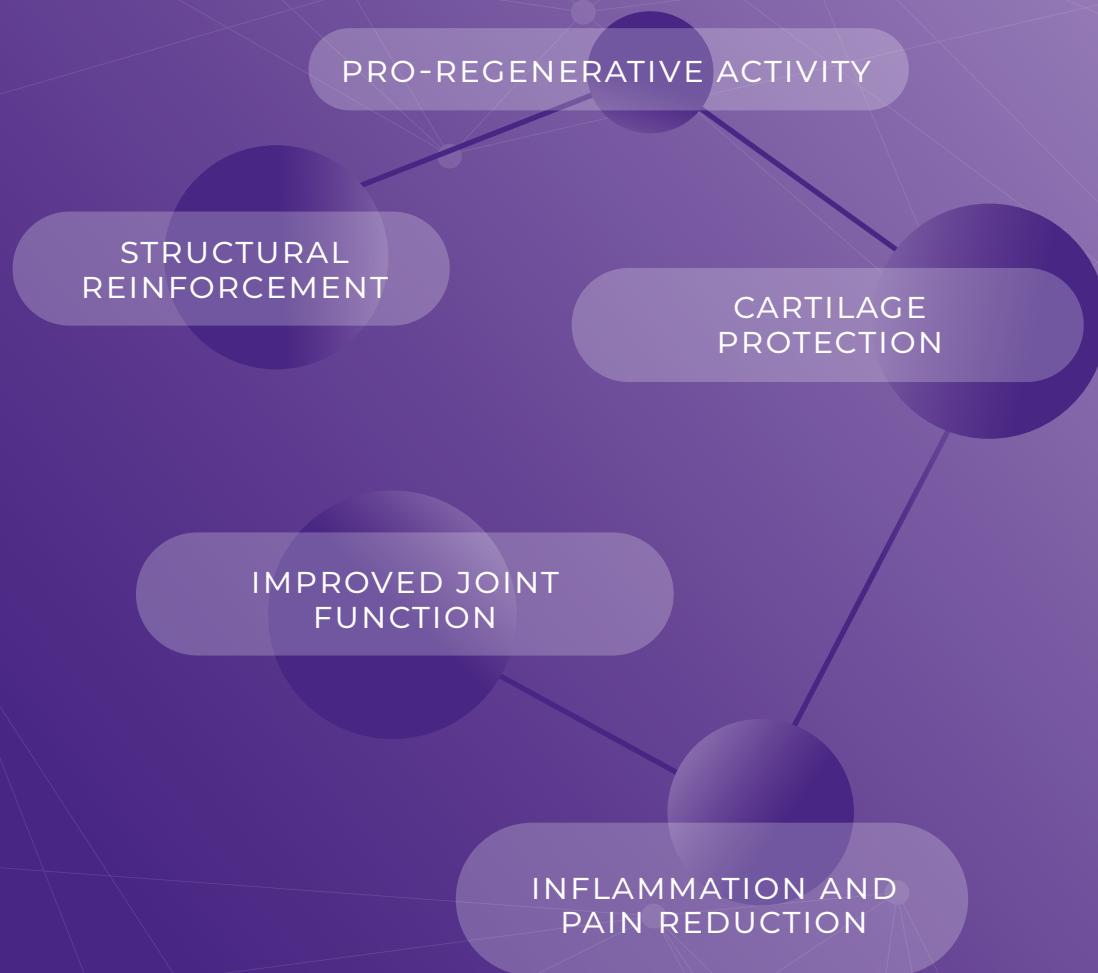
Through a ready-to-use injection solution, LWPs provide specific amino acid sequences specific to the collagen structure, useful for the structural and functional recovery of joints.

Without exerting any viscosupplementation, Arthrys rapidly improves arthrosis symptomatology. It promotes the synthesis of type II collagen and other critical elements of the extracellular matrix, such as endogenous hyaluronic acid and glycosaminoglycans.

The reinforcing action of cartilage is also supported by the natural inhibition of lytic processes by peptides, useful to fight catabolic degeneration and inflammation.

A diagram illustrating the structure of collagen peptides. It features several interconnected nodes of varying sizes, representing amino acid residues, connected by lines that represent peptide bonds. The nodes are arranged in a branching, network-like pattern, with some larger nodes acting as central hubs. The overall structure is complex and multi-dimensional, reflecting the intricate nature of collagen molecules.

**COLLAGEN
PEPTIDES
<3kDa**



Mechanism of action

ARTHRYNS® LWPs (approx. 3 kDa) derive from the hydrolytic fragmentation of collagen, which undergoes purification and filtration. The Arthrys injection solution allows the LWPs to spread in the joint environment, acting as a direct reinforcement of the extracellular matrix of connective tissues deteriorated by degenerative, inflammatory or traumatic events.

Formulation

Arthrys formulation also includes magnesium and vitamin C to protect and preserve the peptide structure from oxidation during the sterilization process.

Vitamin C

Promoting new collagen synthesis.

Magnesium

Helping progenitor cells adhesion.

Arthrlys[®] 2

2 mg/ml of LWPs

Intra-articular injection

Three treatments: day 1, day 15, and day 45

Tendon and ligament infiltration

Two treatments: day 1 and day 10

Arthrlys[®] 5

5 mg/ml of LWPs

Intra-articular injection

Only one treatment

Tendon and ligament infiltration

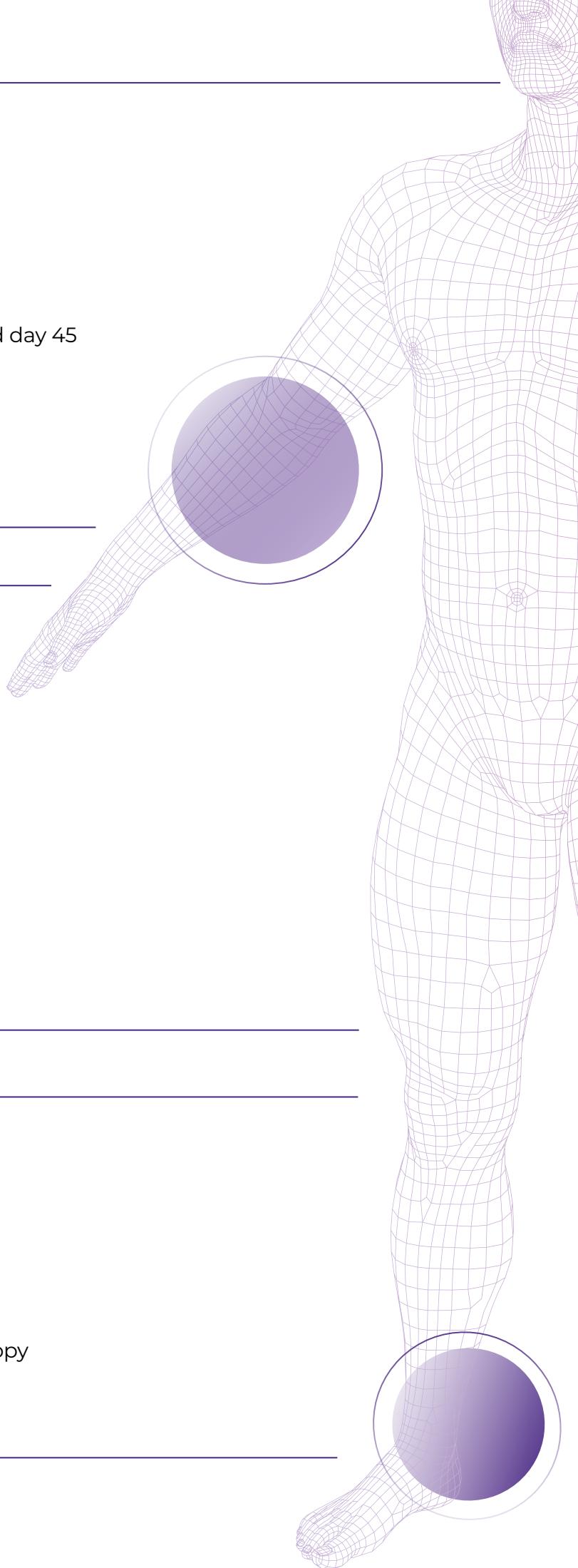
Only one treatment

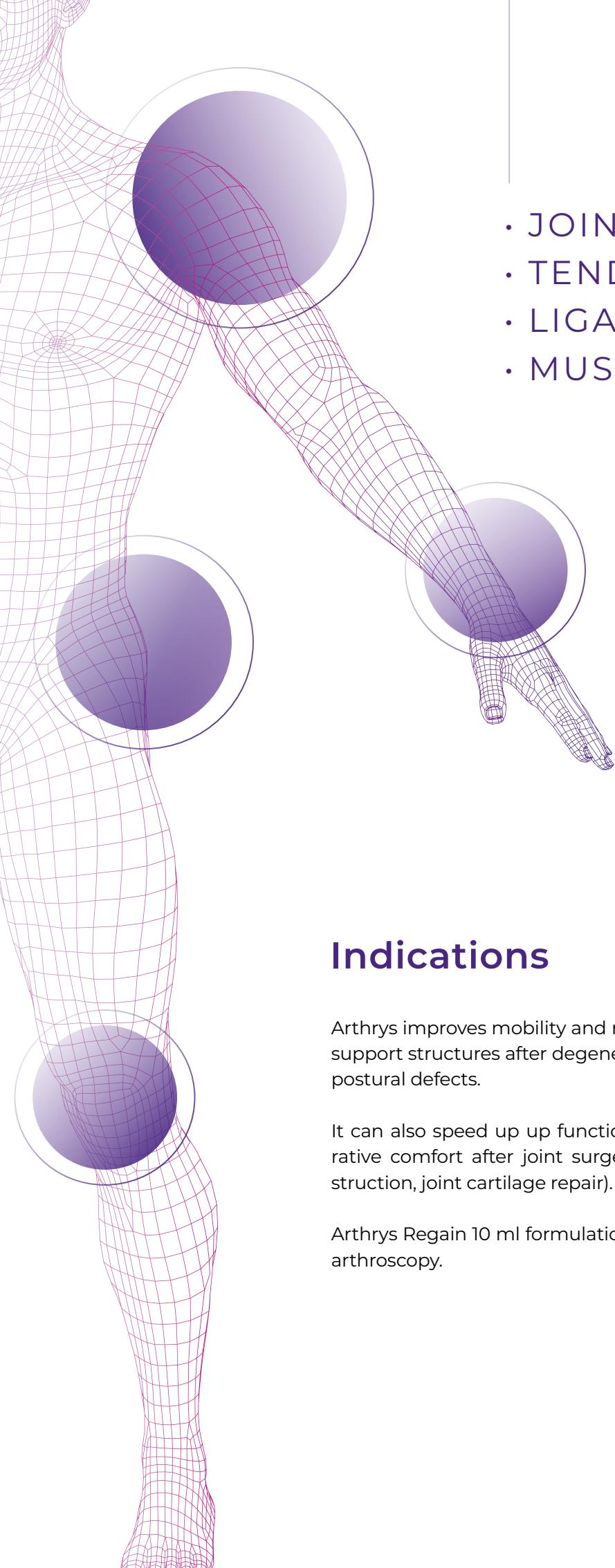
Arthrlys[®] Regain

1 mg/ml of LWPs

Intra-articular injection

Washing treatment after arthroscopy





- JOINTS
- TENDONS
- LIGAMENTS
- MUSCLES

Indications

Arthrys improves mobility and reduces pain in joints and connective support structures after degenerative diseases, trauma, overloads, or postural defects.

It can also speed up functional recovery and improve post-operative comfort after joint surgery (meniscectomy, ligament reconstruction, joint cartilage repair).

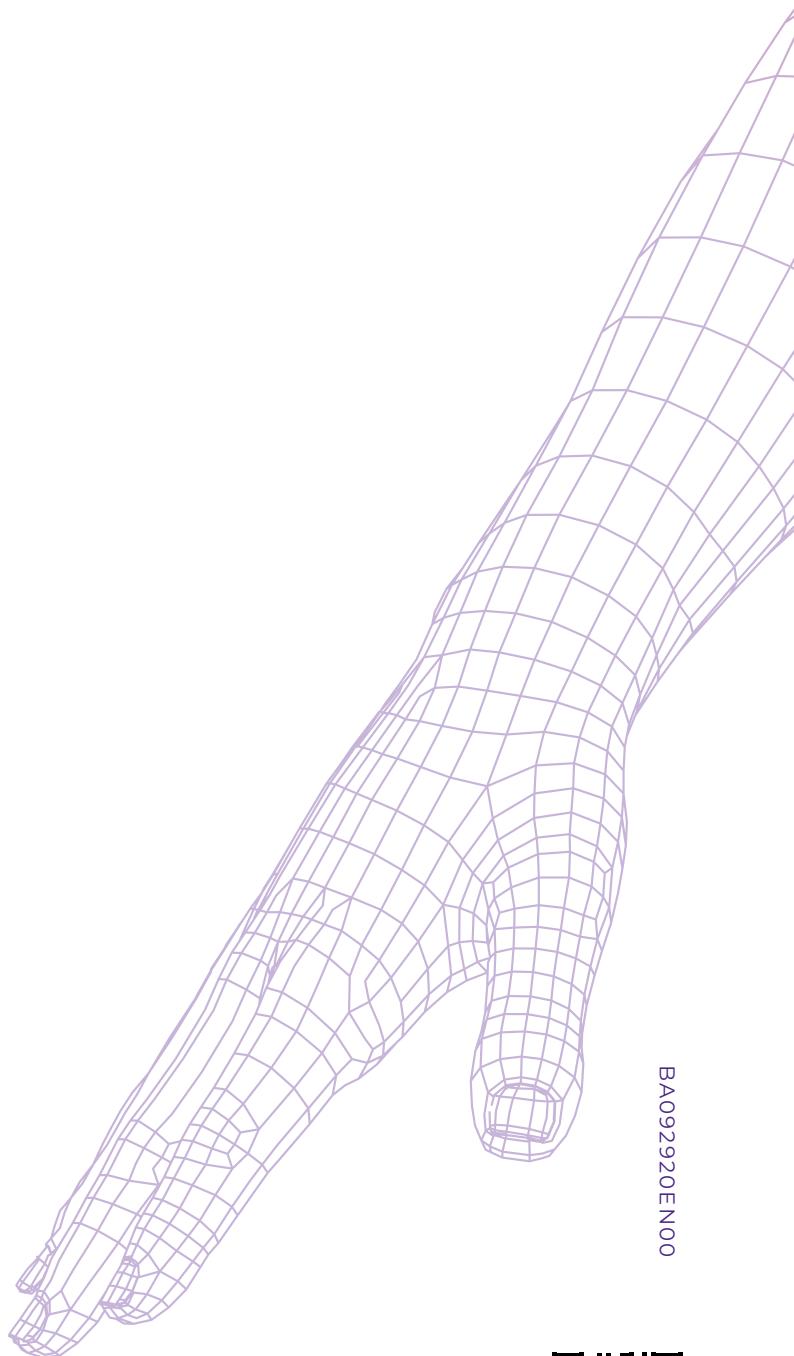
Arthrys Regain 10 ml formulation washes and restores the joint after arthroscopy.



Cod. ATY-21 - ARTHRYS 2 (2 mg/ml) 1 ml
Cod. ATY-22 - ARTHRYS 2 (2 mg/ml) 2 ml

Cod. ATY-51 - ARTHRYS 5 (5 mg/ml) 1 ml
Cod. ATY-52 - ARTHRYS 5 (5 mg/ml) 2 ml

Cod. ATY-110 - ARTHRYS Regain (1 mg/ml) 10 ml



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TISS'YOU S.r.l.
Strada di Paderna, 2 - 47895 - Domagnano (RSM)
tissyou.com - info@tissyou.com

