



NanoNeedle Arthroscopy

An Owner's Guide

Introduction

Nano arthroscopy is a minimally invasive and more cost-effective alternative to standard arthroscopic surgery. The NanoScope™ operative arthroscopy system consists of an all-inclusive medical-grade console that features a 1.9 mm NanoNeedle Scope with chip-on-tip image sensor technology. The portable system allows the surgeon to perform minimally invasive techniques without the need to set up an operating room or the use of general anesthesia.

Why Nano Arthroscopy?

With Nano arthroscopy, your surgeon uses a needle-sized, high-definition camera along with Nano instrumentation to see, diagnose, and treat your pet's injury. Minimally invasive surgery requires only a tiny incision, and the techniques are not as disruptive to the body as traditional surgeries.

Advanced visualization, such as magnetic resonance imaging (MRI), may not be necessary because Nano can be used to diagnose many conditions during a regular appointment, getting your pet to treatment and recovery faster with fewer costly appointments.


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Benefits for the Patient



- Cost effective
- Procedures may be performed under local anesthesia and light sedation instead of general anesthesia
- Fewer general anesthetic complications
- Less trauma and shorter hospitalization time
- Same-day diagnostic and surgical treatment
- Faster recovery time

How Will My Veterinarian Determine if My Pet Is a Good Candidate for NanoNeedle Arthroscopy?

A joint problem will typically be suspected by your veterinarian based on the physical examination and medical history. Before arthroscopy, diagnostic imaging of the injured joint, such as radiography, may be advised. Prior to the procedure, advanced imaging techniques like computed tomography (CT) or MRI may be necessary. In the end, needle arthroscopy can be a more accurate diagnostic technique since it allows your veterinarian to see inside the joint and determine the best course of action.

What Can the NanoNeedle Scope Treat?

Hip	Elbow
	
Diagnostic and second-look arthroscopy and direct guided injection	Diagnostic and second-look arthroscopy and direct guided injection
Hip dysplasia	Elbow dysplasia
Hip osteoarthritis	Elbow osteoarthritis
	Medial coronoid process disease
	Osteochondritis dissecans (OCD)
	Humeral intercondylar fissure

Stifle	Shoulder
	
Diagnostic and second-look arthroscopy and direct guided injection	Diagnostic and second-look arthroscopy and direct guided injection
Cranial cruciate ligament disease/rupture	Degenerative or traumatic biceps tendon rupture
Caudal cruciate ligament injury	Biceps tenosynovitis
Stifle osteoarthritis	Shoulder osteoarthritis
Femoral Condyle OCD	OCD
Medial patellar luxation	
Medial or lateral meniscal tear	

Benefits of Local Anesthesia With Sedation Compared to General Anesthesia

- **Patient safety**—general anesthesia increases the risk of complications in dogs
- **Cost**—sedation and local anesthesia are cost-effective
- **Efficiency**—sedation is often used with reversible drugs, allowing patients to recover rapidly compared to general anesthesia (premedication sedative followed by procedure and full recovery may require another 30 minutes after the procedure)
- **Hospitalization**—most dogs can go home in one hour compared to dogs who receive general anesthesia, which can require several hours or an overnight stay

Post-operative Care

Please refer to your primary veterinarian for post-operative care instructions.

