

## Medical Coverage Policy | Manipulation Under Anesthesia



**EFFECTIVE DATE:** 05 | 18 | 2016

**POLICY LAST UPDATED:** 04 | 19 | 2023

### OVERVIEW

Manipulation under anesthesia (MUA) consists of a series of mobilization, stretching, and traction procedures performed while the patient is sedated (usually with general anesthesia or moderate sedation).

### MEDICAL CRITERIA

Not applicable

### PRIOR AUTHORIZATION

Not applicable

### POLICY STATEMENT

#### Medicare Advantage Plans

Spinal manipulation and manipulation of other joints performed during the procedure (e.g., hip joint) with the patient under anesthesia, spinal manipulation under joint anesthesia, and spinal manipulation after epidural anesthesia and corticosteroid injection are considered not covered for treatment of chronic spinal (cranial, cervical, thoracic, lumbar) pain and chronic sacroiliac and pelvic pain as the evidence is insufficient to determine the effects of the technology on health outcomes.

Spinal manipulation and manipulation of other joints under anesthesia involving serial treatment sessions is considered not covered as the evidence is insufficient to determine the effects of the technology on health outcomes.

Manipulation under anesthesia (MUA) involving multiple body joints is considered not covered for treatment of chronic pain as the evidence is insufficient to determine the effects of the technology on health outcomes.

Manipulation under anesthesia for fractures, completely dislocated joints, adhesive capsulitis (eg, frozen shoulder), and/or fibrosis of a joint that may occur following total joint replacement may be considered medically necessary.

#### Commercial Products

Spinal manipulation and manipulation of other joints performed during the procedure (e.g., hip joint) with the patient under anesthesia, spinal manipulation under joint anesthesia, and spinal manipulation after epidural anesthesia and corticosteroid injection are considered not medically necessary for treatment of chronic spinal (cranial, cervical, thoracic, lumbar) pain and chronic sacroiliac and pelvic pain as the evidence is insufficient to determine the effects of the technology on health outcomes.

Spinal manipulation and manipulation of other joints under anesthesia involving serial treatment sessions is considered not medically necessary as the evidence is insufficient to determine the effects of the technology on health outcomes.

Manipulation under anesthesia (MUA) involving multiple body joints is considered not medically necessary for treatment of chronic pain as the evidence is insufficient to determine the effects of the technology on health outcomes.

Manipulation under anesthesia for fractures, completely dislocated joints, adhesive capsulitis (eg, frozen shoulder), and/or fibrosis of a joint that may occur following total joint replacement may be considered medically necessary.

## **COVERAGE**

Benefits may vary between groups and contracts. Please refer to the appropriate section of the Benefit Booklet, Evidence of Coverage or Subscriber Agreement for applicable not medically necessary/not covered benefits/coverage.

## **BACKGROUND**

Manipulation is intended to break up fibrous and scar tissue to relieve pain and improve range of motion. Anesthesia or sedation is used to reduce pain, spasm, and reflex muscle guarding that may interfere with the delivery of therapies and to allow the therapist to break up joint and soft-tissue adhesions with less force than would be required to overcome patient resistance or apprehension. MUA is generally performed with an anesthesiologist in attendance. MUA is an accepted treatment for isolated joint conditions, such as arthrofibrosis of the knee and adhesive capsulitis. It is also used to reduce fractures (eg, vertebral, long bones) and dislocations.

MUA has been proposed as a treatment modality for acute and chronic pain conditions, particularly of the spine, when standard care, including manipulation, and other conservative measures have failed. MUA of the spine has been used in various forms since the 1930s. Complications from general anesthesia and forceful long-lever, high-amplitude nonspecific manipulation procedures led to decreased use of the procedure in favor of other therapies. MUA was modified and revived in the 1990s. This revival has been attributed to increased interest in spinal manipulative therapy and the advent of safer, shorter-acting anesthesia agents used for conscious sedation.

### **MUA Administration**

MUA of the spine is described as follows: after sedation, a series of mobilization, stretching, and traction procedures to the spine and lower extremities is performed and may include passive stretching of the gluteal and hamstring muscles with straight leg raise, hip capsule stretching and mobilization, lumbosacral traction, and stretching of the lateral abdominal and paraspinal muscles. After the stretching and traction procedures, spinal manipulative therapy (SMT) is delivered with high-velocity, short-amplitude thrust applied to a spinous process by hand while the upper torso and lower extremities are stabilized. SMT may also be applied to the thoracolumbar or cervical area when necessary to address the low back pain.

MUA takes 15–20 minutes, and after recovery from anesthesia, the patient is discharged with instructions to remain active and use heat or ice for short-term analgesic control. Some practitioners recommend performing the procedure on three or more consecutive days for best results. Care after MUA may include 4–8 weeks of active rehabilitation with manual therapy including SMT and other modalities.

Scientific evidence on spinal MUA, spinal manipulation with joint anesthesia, and spinal manipulation after epidural anesthesia and corticosteroid injection is very limited. No randomized controlled trials have been identified. Evidence on the efficacy of MUA over several sessions or for multiple joints is also lacking. Safety outcomes in these settings are poorly described. The evidence is insufficient to determine the effects of the technology on health outcomes.

## **CODING**

The following code is not covered for Medicare Advantage Plans and not medically necessary for Commercial Products when used for the indications listed above:

**22505** Manipulation of spine requiring anesthesia, any region

## **RELATED POLICIES**

Not applicable

## PUBLISHED

Provider Update, June 2023

Provider Update, September 2022

Provider Update, September 2021

Provider Update, July 2020

Provider Update, January 2020

## REFERENCES

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