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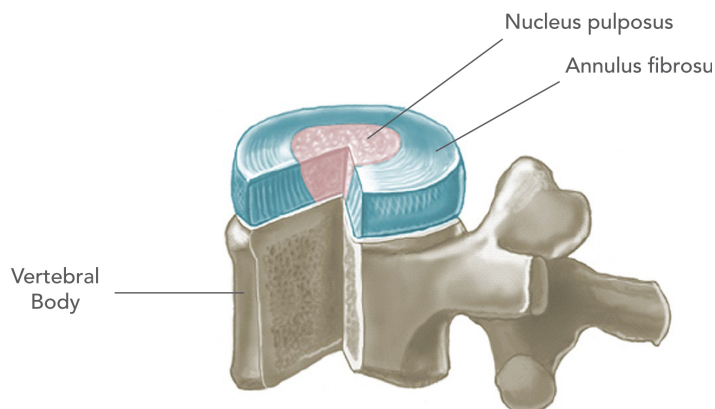
LIFEHEALTHCARE [M6 ARTIFICIAL CERVICAL DISC](#)

M6 Artificial Cervical Disc

Foreword Note: The Department of Health and Ageing has approved the use of cervical disc replacement procedures for the treatment of degenerative disc disease with radiculopathy in the absence of osteoporosis and where a patient has failed conservative therapy. The approval is for single level use only, where the cervical disc replacement device is used in either a stand-alone single level procedure or as part of a hybrid cervical fusion procedure, where the disc replacement device is used in no more than one level of the total procedure

Natural Disc

Between each vertebra throughout the spine is a disc; a shock-absorbing pillow that helps maintain proper spacing, stability, and motion within the spine. Each disc has a fibrous, tire-like outer band (called the annulus fibrosus) that encases a central, gel-like substance (called the nucleus pulposus). The nucleus and annulus work together to absorb shock, help stabilize the spine, and provide a controlled range of motion between each vertebra.



Motion in All Directions

To meet the needs of our daily activities, the spine and its vertebrae must be free to move in multiple directions. Our daily activities require us to move our spine forward, backwards, side-to-side, as well as rotate. These types of movements travel in either of two directions: **translational** or **rotational**.

The translational planes have three types or "degrees" of movements (forward/backward, side-to-side, and up/down). The rotational axes have three degrees of movement as well (rotating forward/backward bending, and side to

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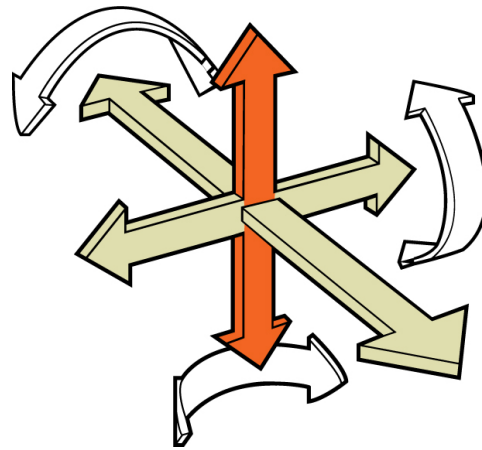
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The intervertebral disc and its structure (**nucleus** and **annulus**) provide the key components that allow each vertebrae to move freely in these 6 degrees of freedom.

- BodyTom CT Scanner
- All Specialised Surgical Tables
- Serres Suction Liner System
- Doro Headclamp Systems
- BFW Surgical Headlights
- Pressure Management
- General Operating Room Tables
- Ultrasound
 - Philips
 - Cardiology



M6-C Overview

Note: M6-C is approved for single level use only – Please consult your doctor regarding your symptoms and the use of this technology, which has very specific indications for use.

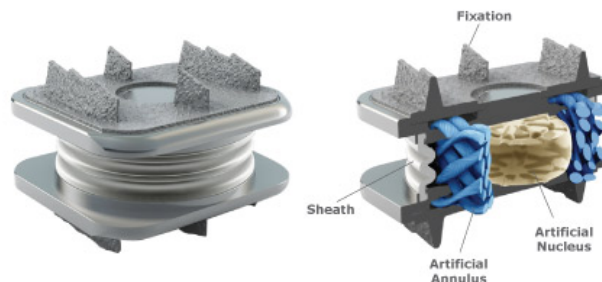
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The M6 artificial cervical disc offers an innovative option for artificial cervical disc replacement because of its unique design which is based on a natural disc's qualities.

Engineered to replicate your own disc, the M6 is the only artificial disc that incorporates an artificial nucleus (made from polycarbonate urethane) and a woven fiber annulus (made from polyethylene). The M6 artificial nucleus and annulus are designed to provide the same motion characteristics of a natural disc.

Together, the M6's artificial nucleus and annulus provide compressive capabilities along with a controlled range of natural motion in all 6 degrees of freedom along each vertebra. This "natural" motion is designed to provide the freedom to move your neck naturally while minimizing the stress to adjacent discs and other important spinal joints.

The M6 has two titanium outer plates with keels for anchoring the disc into the bone of the vertebral body. These outer plates are coated with a titanium plasma spray that promotes bone growth into the metal plates, providing long term fixation and stability of the disc in the bone.



Quality of Motion

Quality of Motion assesses how well the motion of an implanted functional spine unit approximates the motion of a healthy one over the entire range of motion, not just its endpoints. Through biomechanical testing, a load vs. angular displacement curve ("kinematic signature") is generated that allows assessment of the Quality of Motion parameters.

Biomechanical testing with the M6-L artificial lumbar disc has demonstrated equivalent Quality of Motion compared to the healthy disc. The innovative artificial fiber annulus and nucleus construct of the M6-L is the critical component in replicating this physiologic motion, as it is designed to provide the necessary restraint and control needed throughout the spine's natural range of motion.

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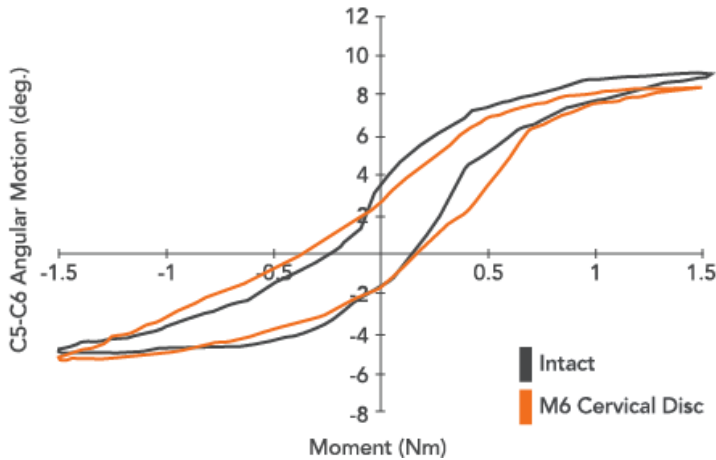
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C5–C6 Flexion-Extension Load-Displacement Curves
150 N Follower Load



C5–C6 Flexion-Extension Load-Displacement Curves
Biomechanical results showing the M6 cervical disc (orange) maintained total ROM (13.5) vs. the intact disc (13.3) with excellent Quality of Motion. The "kinematic signatures" of the intact disc (grey) and M6 cervical disc are nearly identical.

Patwardhan et al. Musculoskeletal Biomechanics Laboratory, Edward Hines Jr. VA Hospital, Hines, Illinois, USA

Is the M6 Artificial Cervical Disc for me?

Please speak with your doctor to understand the benefits and risks associated with artificial cervical disk replacement and to find out if you're a candidate for cervical disk replacement using the M6 artificial cervical disc.

[Please click here for more information on M6C](#)

