

INTERSOMATIC CERVICAL CAGE PM CAGE® INSTRUCTIONS FOR USE

Manufacturer : NEURO FRANCE Implants
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Important information for the practitioner :

The practitioner should carefully study the guidelines and advice and recommendations before using of the PM Cage® cervical interbody fusion cage.

1. Description of the material

- The system is composed of PM cages (Small or Large).
- The PM CAGE® system is made of either PEEK Optima® (with Ti 6-Al 4-V titanium alloy radiological markers) or Ti 6-Al 4-V titanium alloy in accordance with the ISO 5832-3 standard.
- The PM CAGE® system is available in a non-sterile and sterile state (only for the PEEK Optima® version).

Origin neither human nor animal - Non absorbable.

2. Proper Usage

The PM cages are intended for the fusion and restoration of the intersomatic space between two or more cervical vertebrae. The Implants are not intended to withstand anatomic mechanical stresses beyond one year without bone grafting and / or anterior fusion. An additional fixation is recommended for multi-segmental arthrodesis (eg PM Butterfly® plate).

3. Expected Clinical Performance

- Improvement of at least 15% at 1 year of current clinical and functional scores assessing pain (VAS, NDI), disability (NDI, Nurick) and quality of life of the patient (SF-36)
- Fusion rate greater than 85% at one year postoperatively.

4. Indications

PM CAGE® cervical intersomatic cages are intended for the treatment of spinal disorders such as :

- Degenerative spine
- Cervico-Brachial neuralgia (myelopathy - radiculopathy)

5. Contraindications

The choice of treatment belongs to the practitioner who has the training and experience necessary for it.

Factors compromising implantation (non-exhaustive list) :

- Severe osteoporosis, osteomyelitis
- Active infectious processes or significant risk of infection (compromised immuno)
- Comminuted fractures (burst-fracture) and fractures-collaps
- Tumors
- Cervical spondylolisthesis
- Extended epidural fibrosis
- Morbid obesity
- Pregnancy
- Hyperactivity
- Mental illness
- Glass Bone Disease
- Allergy or intolerance to the materials that constitute the suspected or documented implant.
- Any patient not wishing to follow postoperative instructions.

6. Use

- Consult the surgical technique before each use.
- The surgical approach is the anterior route.

7. General warning

The surgeon is solely responsible for the operation. He should carefully study the guidelines and advice as well as recommendations before using PM CAGE® implants. To have a stable fixation, he must know perfectly the handling of ancillary equipment and recommendations for use.

8. Warnings / Operating Precautions

- The surgeon must be fully familiar with PM CAGE® implants, the method of application, the instruments and the surgical technique.
- The components of the PM CAGE® range must not be associated with devices of other ranges.
- The use of different ancillary components and / or incorrect use of the ancillaries necessary for the installation of the PM CAGE® system is strongly contraindicated since this can lead to damage to the implants and thus limit the optimization of the desired function.
- Although allergic reactions are very rare, it is recommended to check the allergic level of the patients with particularly strong ground.
- The PM CAGE® system must be used under perfectly sterile operating conditions. Nos implants sont à usage unique et ne doivent jamais être réutilisés.
- Our implants are for single use and should never be reused. Reuse can result in decreased device performance, contamination, and cross-infection.
- Any implant removed from the patient, damaged or misused, should be removed as soon as it has been in contact with blood or body tissue.
- There is no known risk of reciprocal interference between the implant and other medical devices.
- The implants are made of titanium alloy Ti 6-Al 4-V or PEEK Optima® which are non-magnetic materials. They pose no real risks to patients when exposed to electromagnetic and magnetic environments.
- The patient must declare that he is an implant holder before exposure to electromagnetic and magnetic environments.
- The patient will be informed by the medical staff of the risks generated by the surgical procedure (contraindications, adverse effects / complications, precautions to take, limited life of the device). He must also respect the surgeon's advice and recommendations (radiological checks, limited physical activity, etc.) during the postoperative phase.
- For proper consolidation, it is advisable to limit physical activity after placing the medical device and carrying heavy loads. Otherwise, the implant could rupture or damage which would require re-operation. The implant should not be exposed to excessive movements of mechanical vibrations for example.
- Any changes (appearance, pain,...) at the implanted site should be reported to the practitioner. All types of accidents such as a fall, for example, should be reported to the practitioner even if no external sign at the implanted site is visible.

9. Undesirable effects / complications

The undesirable effects or potential complications are :

- Severe pseudarthrosis
- Risk of infection of the implantation site
- Neurological and / or vascular damage related to the surgical procedure
- Displacement or expulsion of the implant requiring a new intervention
- Fatigue fracture of the material
- Death.

10. Implant storage condition

The implants should be stored in a dry place at room temperature. Sterile implants must also be stored away from sunlight and UV light.

11. Sterilization

- Implants and ancillaries delivered non-sterile

PM Cage® implants and ancillaries are delivered non-sterile. They must be sterilized under the responsibility of the sterilization manager of the health facility. Sterilization must be performed by autoclaving.

Method : Sterilization with steam (moist heat)

Minimum recommended time : 18 minutes

Minimum recommended temperature : 134° C

It is recommended to check the sterilization indicator(s) before opening and the integrity of the sterilization packaging.

- Implants delivered sterile

PM CAGE® implants are delivered sterile under double vacuum packaging in a cardboard box, filmed and identified. Sterilization is performed by gamma irradiation of at least 25 kGy from a cobalt 60 source.

Caution : Do not use these implants in the following case: absence of vacuum that indicates a violation of the packaging, which means loss of sterility.

It is recommended to check before use the integrity of all levels of packaging and the expiry date.

Product labels are placed inside the packaging to ensure traceability in health facilities.

It is recommended to check before opening the sterilization indicator (s) and the integrity of the packaging.

12. Implant Disposal

The disposal and rebut of the implant follows the same procedures in the facility as hospital waste.

13. Additional information

Date of placing on the market : March 2005 (non-sterile) / May 2015 (sterile)

Further information can be obtained from NEURO FRANCE Implants.

Explanation of symbols used on product labeling :

	Radiation sterilized		Manufacturer
	Catalog number		Date of manufacture
	Lot number		Do not use if the packaging is damaged
	Use before		Attention! Consult attached documentation
	Do not reuse		CE marking with the Notified Body's identification number
	Non-sterile		

Complaints :

Any complaint or report of malfunction must be made immediately by telephone, fax, email or mail to NEURO FRANCE Implants.

Please read the instructions carefully.

These implants are class IIb medical devices and are marked :

 0459

Our notified body is the GMED.