MINIMALLY INVASIVE PATIENT-MATCHED SOLUTIONS

MySpine MC is a 3D printed patient matched solution in the midline cortical approach. Posterior lumbar fusion is driven in a minimally invasive, muscle sparing way, allowing for shorter operating times and a substantial reduction of both radiation exposure and costs.

- **MINIMALLY INVASIVE**
- **EXEMPLARY CLINICAL OUTCOMES**
- **TIME SAVING**
- **LOW RADIATION DOSE**
- **HIGH BENEFIT/COST RATIO**

The goal of MySpine MC is to combine an excellent fusion rate with greater predictability of the clinical outcomes.

MySpine MC: Midline Cortical

MINIMALLY INVASIVE

Minimally disruptive, medialized access with paramedial muscle retraction promotes:
- Enhanced muscle preservation[1]
- Reduced blood loss[2]
- Faster patient recovery[3]
- Supradijacent facet preservation[1]

POTENTIAL FOR A LOWER ADJACENT SEGMENT DISEASE (ASD) VS. CONVENTIONAL TECHNIQUE[2]

TRADITIONAL TRAJECTORY

MYSPINE MC TRAJECTORY

UP TO -71%

EXCELLENT CLINICAL OUTCOMES

Entry points are located at the pars interarticularis with favourable cortical bone[4]. MySpine MC provides highly precise implant positioning which may enable the use of longer screws and larger diameters vs. CBT free hand[5].

- Uncompromised fusion rate[6]
- May reduce risk of nerve root injury by means of thorough pre-op trajectory management[7]
- Accurate pedicle screw positioning: easier access to the safe zone for ALL screws[8]

Improved bone purchase vs. conventional technique:
- Reduced screw loosening -69%
- Significantly increase in pull-out resistance +30%
- Strong anteroposterior apophyseal fusion correction, +23% slip[10]

TIME SAVING

- Ready to use 3D printed technology in your hands
- No peri-operative image acquisition, thanks to accurate pre-op planning[11]
- Smart Technique: position the MySpine jig on the corresponding vertebra and prepare the screw path for safe and fast implant positioning

LOW RADIATION DOSE

- Patients are exposed to a low dose pre-op CT scan, resulting in radiation exposure lower than a single full spine x-ray[12]
- Pre-operative planning potentially nullifies the need of intra-operative checks, with dramatic reduction of irradiation[13]
- Cumulative dose is potentially reduced vs. navigation assisted technique

- 3.1

Comparison of conventional and competitors technique irradiation vs. MySpine

- 20.4
- 37.14
- 3.1

MySpine is Safe for both OR Staff and Patients!

- 0.9
- 81.5

HIGH BENEFIT/COST RATIO

- No expensive capital investment is required
- No recurrent service cost or disposable kit
- Rapid Learning Curve for effective accuracy
- Outpatient Surgery: hospital can potentially capitalize on resources and potentially increase volumes as patients return home immediately[12]

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MYSPINE CASE MANAGEMENT

1. IMAGE ACQUISITION
Low Dose CT scan to deliver 3D reconstruction of individual vertebral anatomy

2. 3D PRE-OP PLAN MANAGEMENT
The surgeon defines optimal implant parameters: screw diameter, length and trajectory

3. 3D PRINTING MYSPINE MC
3D patient matched Jigs are sent to the hospital

4. MYSPINE MC MIS SURGERY
Surgery with dedicated MySpine MC system

REFERENCES


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MYSPINE MC EDUCATION PROGRAM

The M.O.R.E. Institute has created a comprehensive Education Program which supports the surgeon in the application of the MySpine MC system through:

- Reference Center
  You will have the opportunity to visit a Reference Center and attend live MySpine surgeries

- Learning Center
  Attend a MySpine WetLab, meet experienced surgeons and discuss the clinical and economic benefits of the MySpine technology.

- Support in your hospital
  An experienced Reference Surgeon can support you during your first cases at your own hospital.

- Continuous Education
  Through MySpine user meetings, M.O.R.E. International events, Reference Center visits and other educational tools.

Simply contact Medacta and we will create an Education Program for you!