

## SERVICE PORTFOLIO

### Minimally Invasive Techniques for Pain Treatment

#### Facet pain treatment:

**Continuous radiofrequency and facet infiltration**

Management: Outpatient

Anaesthetics: Local

**Percutaneous transfacet fixing**

Management: Admitted 24 hours

Anaesthetics: Sedation

**Percutaneous fixing sidebar**

Management: Admitted 24 hours

Anaesthetics: Sedation

**Percutaneous fixing multilevel**

Management: Admitted 24 hours

Anaesthetics: Sedation

**Synovectomy with facet radiofrequency**

Management: Admitted 24 hours

Anaesthetics: local

**Back facet cryoablation**

Management: Outpatient

**Cervical facet cryoablation**

Management: Outpatient

**Cervical fixing**

Management: Admitted 24 hours

Anaesthetics: Sedation

**Cold facet radiofrequency**

Management: Outpatient

Anaesthetics: local

**Facet synovial cyst treatment**

Management: Outpatient

Anaesthetics: Local

#### Herniated disk treatment:

**Periradicular epidural infiltration and pulsed radiofrequency**

Management: Outpatient

Anaesthetics: Local

**Percutaneous discectomy and herniotomy**

Management: Admitted 24 h

Anaesthetics: Local / Sedation

**Chemonucleolysis (Discogel)**

Management: Outpatient

Anaesthetics: Local / Sedation

**Disc radiofrequency + dysectomy**

Management: Admitted 24 hours

Anaesthetics: Sedation

**Intradisk Plasma**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Ozone + Disc denervation**

Management: Admitted 24 hours

Anaesthetics: Local /sedation

**Herniated disc endoscopic treatment (laser)**

Management: Admitted 24 hours

Anaesthetics: Sedation

#### Spine fractures treatment: (Osteoporotic fractures, traumatic, benign and malign timorous)

**Vertebroplasty**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Kyphoplasty**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Spine increase alternatives**

**Vesselplasty**

Management: Asmitted 24 hours

Anaesthetics: Local /Sedation

**Stent plasty**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Kivoplasty**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Spine Jack**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Tektona**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

**Radiofrequency Kyphoplasty**

Management: Admitted 24 hours

Anaesthetics: Local / Sedation

## **Discogenic pain treatment**

**Cooled transdisc radiofrequency**  
Management: Admitted 24 hours  
Anaesthetics: Local / Sedation

**Intradiscal hydrogel**  
Management: Admitted 24 hours  
Anaesthetics: Local

**Intervertebral disc radiofrequency + dysectomy**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Intervertebral disc biopsy**  
Management: Outpatient  
Anaesthetics: Local

**Regeneration therapy: Stem cells**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Cervical spacer**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Interbody fusion cages**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**CT-myelography**  
Management: Outpatient  
Anaesthetics: Local

**Provocative discography**  
Management: Outpatient  
Anaesthetics: Local

## **Treatment for Failed Back Surgery Syndrome**

**Epiduroscopy and epidurolysis**  
Management: Admitted 24 hours  
Anaesthetics: Local / Sedation

**Epidural Bipolar Radifrequency with multifunctional electric catheter**  
Management: Admitted 24 hours  
Anaesthetics: Local / Sedation

## **Spin estenosis and foraminal stenosis treatment**

**Percutaneous decompression of discal protrusión (radiofrequency + dysectomy)**  
Management: Admitted 24 hours  
Anaesthetics

**Percutaneous foraminotomy**  
Management: Admitted 24 hours

Anaesthetics : Sedation

## **Sacrum iliac pain treatment**

**Infiltration and denervation by sacrum iliac radiofrequency**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Sacrum iliac cryoablation**  
Management: Outpatient

**Regeneration therapy: Stem cells**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Sacrum iliac fixing**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

## **Tumorous lesions treatment**

**Bone lesion diagnosis**  
**Percutaneous bone biopsy**  
Management: Outpatient/Inpatient  
Anaesthetics: Local

**Intervertebral disc biopsy**  
Management: Outpatient / Inpatient  
Anaesthetics: Local

**Metastatic bone lesions treatment**  
**Thermoablation and percutaneous cementation combination**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

## **Benign bone lesions treatment**

**Osteoid osteoma: radiofrequency ablation**  
Management: Admitted 24 hours  
Anaesthetics: Sedation

**Invasive hemangioma: alcoholization and vertebroplasty**  
Management: Inpatient  
Anaesthetics: Sedation

## **Oncological pain treatment**

**Neurolysis of celiac plexus, hypogastric, odd node: radiofrequency ablation / alcohol**  
Management: Inpatient  
Anaesthetics: Sedation

**Sympathectomy (T2-T3, celiac plexus, mesenteric, hypogastric, odd node)**  
Management: Inpatient  
Anaesthetics: Sedation

## Musculoskeletal pain treatment

### Shoulder pain:

Shoulder ultrasound-guided infiltration (corticosteroids and hyaluronic acid)

Management: Outpatient

Anaesthetics: Local

Tricompartmental infiltration

Management: Outpatient

Anaesthetics: Local

Pulsed radiofrequency of the suprascapular nerve

Management: Outpatient

Anaesthetics: Local

Percutaneous treatment for the rotator cuff calcifications

Management: Outpatient

Anaesthetics: Local

Regeneration therapy: Stem cells

Management: Inpatient

Anaesthetics: Sedation

### Hip pain:

Hip cold radiofrequency (N. Obturator and femoral sensitives)

Management: Admitted 24 hours

Anaesthetics: Sedation

Cryoablation: Coxalgia (Obturator nerve...)

Management: Outpatient

Hyaluronic acid, corticosteroids infiltration

Management: Outpatient

Anaesthetic: Local

Regeneration therapy: Stem cells

Management: Admitted 24 hours

Anaesthetics: Sedation

### Knee pain:

Knee ultrasound-guided infiltration: (corticosteroids and hyaluronic acid)

Management: Outpatient

Anaesthetics: Local

Saphenous nerve pulsed radiofrequency

Management: Outpatient

Anaesthetics: Local

Geniculate nerve denervation of the branches by cold radiofrequency

Management: Outpatient

Anaesthetics: Local

Geniculated nerves cryoablation

Management: Outpatient

Regeneration therapy: Stem cells

Management: Admitted 24 hours

Anaesthetics: Sedation

## Peripheral muscles and nerves treatment

**Pyramidal syndrome: (pseudo-sciatica)**

Corticosteroids and botulinum toxine infiltration

Management: Outpatient

Anaesthetic: Local

**Peripheral neuralgia**

Peripheral nerve infiltration and pulsed radiofrequency

Management: Outpatient

Anaesthetic: Local

**Peripheral nerves cryoablation**

Management: Outpatient

**Joints and muscles pain**

Botulinum toxin or corticosteroids, hyaluronic acid infiltration in muscles and joints

Management: Outpatient

Anaesthetics: Local

**Morton's Neuroma**

Morton's Neuroma pulsed radiofrequency

Management: Outpatient

Anaesthetic: Local

**Ultrasound-guided radiofrequency**

Of cervical, dorsal, back, sacrum iliac, stellate ganglion, peripheral nerves, (supraescapular).

Management: Outpatient

Anaesthetics: Local

**Cryoablation and pain with ultrasound guide**

Peripheral nerves, supraescapular, facet pain

Management: Outpatient

Anaesthetics: Local

**Face pain:**

Infiltration and radiofrequency: trigeminal, sphenopalatine, occipital, stellate ganglion

Management: Admitted 24 hours

Anaesthetics: Sedation

## High blood pressure treatment

Vascular-renal denervation treatment

Management: Admitted 24 hours

Anaesthetics: Local

## Varicose vein Treatment / Venous failure

Varicose vein treatment with radiofrequency

Management: Outpatient

Anaesthetics: Local

Varicose vein treatment with foam

Management: Outpatient

Anaesthetics: Local

## Thyroid nodes treatment without surgery

Management: Outpatient

Anaesthetics: Sedation

## Regenerative medicine: treatment with stem cells

Management: Outpatient

Anaesthetics: Sedation

## General interventionist treatment

### Non vascular interventionism

- Percutaneous drainage of abscesses and collection.
- Endocavitary drainage: transvaginal, transrectal.
- Digestive tube interventionism:
  - Esophageal prosthesis, esophageal dilatations
  - Pylorus duodenal prosthesis, dilatation and colonic prosthesis
  - Gastrostomy, cust-gastrostomy and gastro-jejunostomy.
- Bile duct: bile drainage, bile endoprosthesis, percutaneous cholecystectomy, elimination and stones removal.

- Celiac plexus ablation
- Hepatic lesions thermoablation (hepatocarcinoma, metastasis..).
- Combined treatment (Chemoembolization and later thermoablation).
- Sclerosis and percutaneous treatment of hydatid cysts.
- Sclerosis and treatment of hepatic and kidney cysts.
- Percutaneous nephrostomy, urethral endoprosthesis, kidney collections drainage, thermoablation of kidney lesions.
- Chest: pleural effusion drainage and pneumothorax, lungs lesions thermoablation.
- Pleural drainage tube

### Vascular interventionism

- Thrombin percutaneous injection
- Bowel bleeding treatment
- Kidney stenting and angioplasty
- Chemoembolization hepatocarcinoma and metastasis
- Pelvic bleeding
- Male varicocele treatment
- Cava filter, vena cava prosthesis
- Hemodialysis fistula treatment.
- Central venous catheter
- Refractory high blood pressure treatment: sympathetic denervation
- Uterine embolization
- Prostatic embolization
- Oncologic problems and post-radiotherapy: radical cystitis, etc...

