Medical device

- Innovative spinal stenosis care
- Minimal invasive solution
- Disposable device for simple procedure
**Mechanism of Action**

**Innovative synergy by polymer and metal**

- Bioabsorbable reaction:
  \[ M \rightarrow M^{2+} + 2e^- \]
  - Ionized, absorbed
  - Skin barrier enhancer
  - Cell activator

- Molecular hydrogen generation:
  \[ 2H_2O + 2e^- \rightarrow 2(OH)^- + H_2 \]
  - Antibacterial function
  - Antioxidant for anti-aging

- Ballooning effect by metal conversion
- Bioabsorbable composite

Time = 0 in saline
After degradation in saline
Lifting thread by metal conversion technology

Strength

By metal

Conventional cog wire

New technology

Metal conversion to gas

Life time

Strength

Limitation

Life time

Inflammation

Limitation

Sensitive Metal Suture

By metal

Skin stress

P = nRT / V

Volume

Time
Thread to Filler  by metal conversion technology

Bioabsorbable Metal Suture

Polymetal Thread

- Strength
- Sustainability
- Drug Delivery
- Active Filler

Filler type

Cog type

Coated type

Hyaluronic Acid
Collagen
API (e.g. Botulinum toxin)