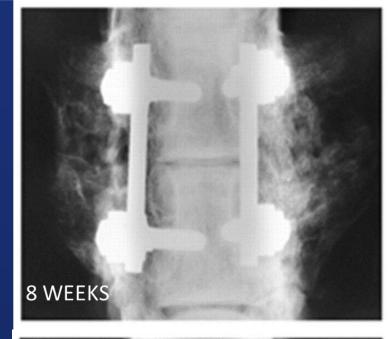


Challenges of Spinal Fusion

- 1M fusion surgeries per year in US (290k lumbar, 265k cervical, 352k interbody, 29k scoliosis)
- Increased 143% since 2011
- Post-surgical = \$100k US per person
- Prolonged disability of 4-6 months
- Current x-ray method requires >16 wk
- Need a faster, more accurate method for assessing that's independent of x-rays
- Wireless implantable sensor based on strain







Diagnostic, Implantable Sensor System for Spinal Fusion

