

Robotics

Benton Franklin Orthopedic Associates



# Let's talk Mako SmartRobotics™



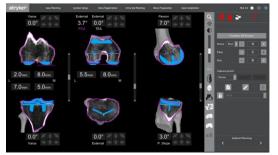


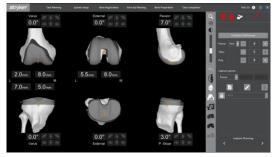


#### **Mako SmartRobotics™**

Mako SmartRobotics™ combines three key components, **3D CT-based planning, AccuStop™ haptic technology** and **insightful data analytics**\*\*, into one platform which has shown better outcomes for total hip, total knee and partial knee patients.<sup>2,9,18</sup>

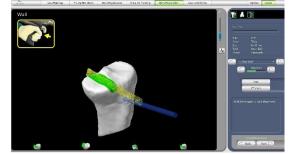
Know more.

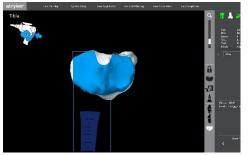


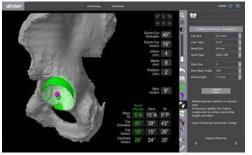




Cut less. 14-8









## The Mako advantage

Mako SmartRobotics<sup>™</sup> is the only robotics system

with **17** years of robotic-arm assisted surgery experience.

No other technologies in the market currently offer these comprehensive solutions.

#### Mako Partial Knee - 2006 Launch date and Total Hip – 2010 Total indications Knee - 2016 **Imaging** CT scan **Bone preparation** Haptically guided cutting guidance with robotic arm Enhanced pre-op planning Dynamic joint balancing **Marketing claims** Haptic guidance **Data analytics** Insightful Data Analytics\* offering Facility Reported Outcomes, RecoveryCOACH™

## **stryker**

# Treatment options for various stages of knee pain

**Early-stage** Midstage Late-stage

knee pain











**Treatment** 

Knee arthroscopy



Unicompartmental knee replacement



Lateral

Patellofemoral knee replacement



Bicompartmental knee replacement



Medial

Total knee replacement





# Clinical success | Total Knee

### Mako Total Knee has demonstrated...

Two distinct, prospective, consecutive series, single-surgeon studies comparing patients who underwent conventional jig-based total knee replacement versus Mako Total Knee surgery (40 patients<sup>5</sup> and 30 patients<sup>9</sup> in each cohort) concluded that Mako Total Knee with Triathlon was associated with:

- ✓ Less bone and soft tissue damage<sup>9</sup> (p<0.05)
- ✓ Less need for manipulations under anesthesia and revisions<sup>5</sup>
- ✓ Less need for opiate analgesics<sup>5</sup> (p<0.001)
- ✓ Less time to hospital discharge<sup>5</sup> (26% reduction in LOS)
- ✓ Less need for inpatient physical therapy sessions<sup>5</sup> (p<0.001)
  </p>
- ✓ Less postoperative pain<sup>5</sup> (p<0.001)
- ✓ Lower cumulative revision rate out to 4 years<sup>42</sup>





# **Economic outcomes | Total Knee**

#### Mako Total Knee has demonstrated...

- ✓ Reduced pain and use of pain medications 10,11,30
- ✓ Reduced utilization and cost of health services such as skilled nursing, home health aide, readmissions and emergency room<sup>13,15,35</sup>
- ✓ Reduced 90-day EOC costs for Medicare and private payer<sup>13,15,24,35,36</sup>
- ✓ Reduced EOC costs for private payers at 12 months<sup>24,36</sup>



## *s*tryker

## BFOA 509-586-2828

