October 25, 2022

# North County Neighborhood Coalition

# Meeting

Teresa C. Urquhart Chief Executive Officer Palm Beach Gardens Medical Center





### As Palm Beach County and the Treasure Coast continues to grow, we are committed to providing award-winning patient care and introducing new services to better serve our community's needs.



# **Current and Upcoming Hospital Upgrades**

- Operating Room Hybrid Room
- Façade Main Building
- Medical Office Building Façade & Common Areas
- 3 West Cardiac/Telemetry Unit
- Emergency Department



# Neurosciences

- Dedicated Neuro Intensive Care Unit
- Established Epilepsy Monitoring Unit
- Expertly Trained Staff
  - Neurosurgeons
  - Neurologist
  - Intensivist
  - Support staff experienced in neurological management
- Advanced Surgical Technology
  - Stealth Station Surgical Navigation System
  - O-Arm Surgical Imaging System
- Award-Winning Care
  - Advanced Certified Primary Stroke Center
  - American Heart Association Get with the Guidelines<sup>®</sup> Stroke Gold Plus (2015-2022)
  - High Performance in the Treatment of Stroke in U.S. News & World Report's 2022-2023 Best Hospitals









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### **Neurosurgeons:**

Ramin M. Abdolvahabi, MD

John K. Afshar, MD

Timothy G. Burke, MD

John D. Cantando, DO

Michael J. Chaparro, MD

Fred L. Cohen, MD

Steven A. Dutcher, DO

Faris J. Fakhoury, MD

Heldo Gomez Jr., MD

Martin Greenberg, MD

Evan M. Packer, MD

Brett A. Schlifka, DO

Ronald L. Young II, MD

Lloyd Zucker, MD

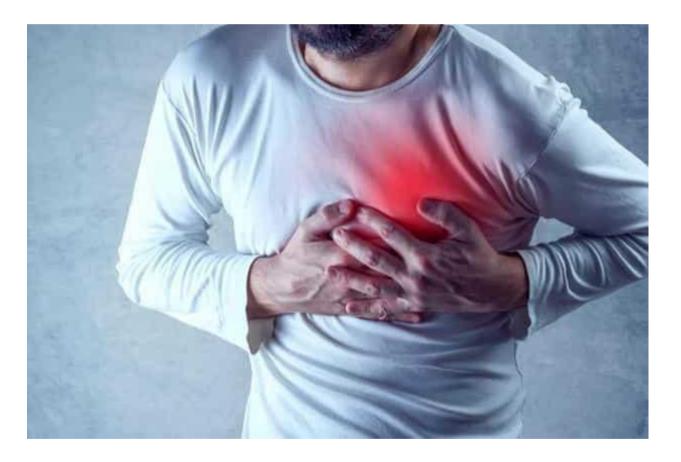
# **HEARTSafe Community Initiative**

### Did you know...

- Over 350,000 cardiac arrests occur per year in the United States with more than 70% of them occurring in the home and 20% in a public place
- For every minute that passes once someone's heart stops their mortality increases by 10%
- Of the 75 cardiac arrests that occurred in Palm Beach Gardens in 2021:
  - 35% were resuscitated by Fire Rescue prior to arrival at the ER
    - Florida average is 17.7%
  - 57% were neurologically intact at hospital discharge
    - National average is 7%







# **HEARTSafe Community Initiative**

### What is a HEARTSafe Community?

- The HEARTSafe Community program is a set of criteria and guidelines designed to improve outcomes to sudden cardiac arrest emergencies through a specific set of training, preparation and response protocols. This includes:
  - Widespread CPR instruction  $\bullet$
  - Public access defibrillators
  - Aggressive resuscitation protocols for first responders and area hospitals







# **HEARTSafe Community Initiative**

- Communities that strive to become "heart safe" must meet the 13 different criteria established  $\bullet$ by the Citizen CPR Foundation.
  - Example of one metric:
    - 15% of the community population to be trained in Hands Only CPR/AED use •
- We partner with Palm Beach Gardens Fire Rescue to offer FREE Hands Only CPR classes to our  $\bullet$ community once a month
  - Next Class is November 15<sup>th</sup> Register at PBGMC.com











# **Community Outreach**

If you are interested in a hands-only CPR class or a speaker for an upcoming community meeting/event, please reach out to our marketing department at **561-366-6753** to help coordinate a date and time!





Looking for a speaker for your organization or civic group?

Palm Beach Gardens Medical Center is offering complementary virtual or in-person lectures to our community on a variety of healthcare topics.

### Sample Lecture Ideas Include:

- Arthritis
- Asthma
- Atrial Fibrillation
- Back Pain
- Cholesterol
- Colon Health
- · COPD
- Constipation Diabetes
- Emergencies from A to Z





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### Palm Beach Gardens Medical Center **Speaker's Bureau**



- Erectile Dysfunction
- Fall Prevention
- Foot Care
- GERD
- Heart Failure
- Heart Health
- High Blood Pressure
- Incontinence
- Joint Replacement
- Medication Safety

- Minimally Invasive Surgery
- Neurology
- Nutrition
- Osteoporosis
- Prostate Health
- Robotic Surgery
- Stroke
- Urology
- Weight Management
- Wound Care

To schedule your next lecture, please call the Marketing Department at



AI M REACH GARDENS MEDICAL CENTER

# **New Procedures and Capabilities**

**Bloodless Medicine and Surgery Program** 



# NO BLOOD PRODUCTS





### Dr. Sean Sawh, Urologist Performed First Optilume Procedure to Treat Anterior Urethral Stricture Disease



# Orthopedics

### **Expanding Our Robotic Orthopedic Service Line Capabilities**

Hello

ak











# Dr. Robert J. Avino, Orthopedic Surgeon



Fellowship trained adult hip and knee reconstruction surgeon

Published in the most prestigious orthopedic journal, The Journal of Arthroplasty

Fellowship: Cleveland Clinic Florida Residency: University of Chicago Medical: Saint Louis University **Undergraduate:** Saint Louis University

Holds robotic device certification for Mako Total Knee, Mako Total Hip (4.0), and Mako Partial Knee.



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### **EDUCATION**

Specializes in direct anterior approach hip replacement, robotic knee replacement, and complex revision surgery

One of 17 board certified physicians at Palm Beach Orthopaedic Institute with offices across Palm Beach County

# Let's talk Mako SmartRobotics™

styke



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# Palm Beach Gardens Medical Center's

Mako Robotic Total Joint Replacement Program







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CONGRATULATIONS DR. AVINO **ON PERFORMING THE FIRST** 

### MAKO SMARTROBOTICS<sup>TM</sup>

### **PROCEDURE AT**





# **A LEADER IN ADVANCED ORTHOPEDIC CARE**

# Palm Beach Gardens Medical Center is the ONLY hospital in Palm Beach County with two Mako Robots







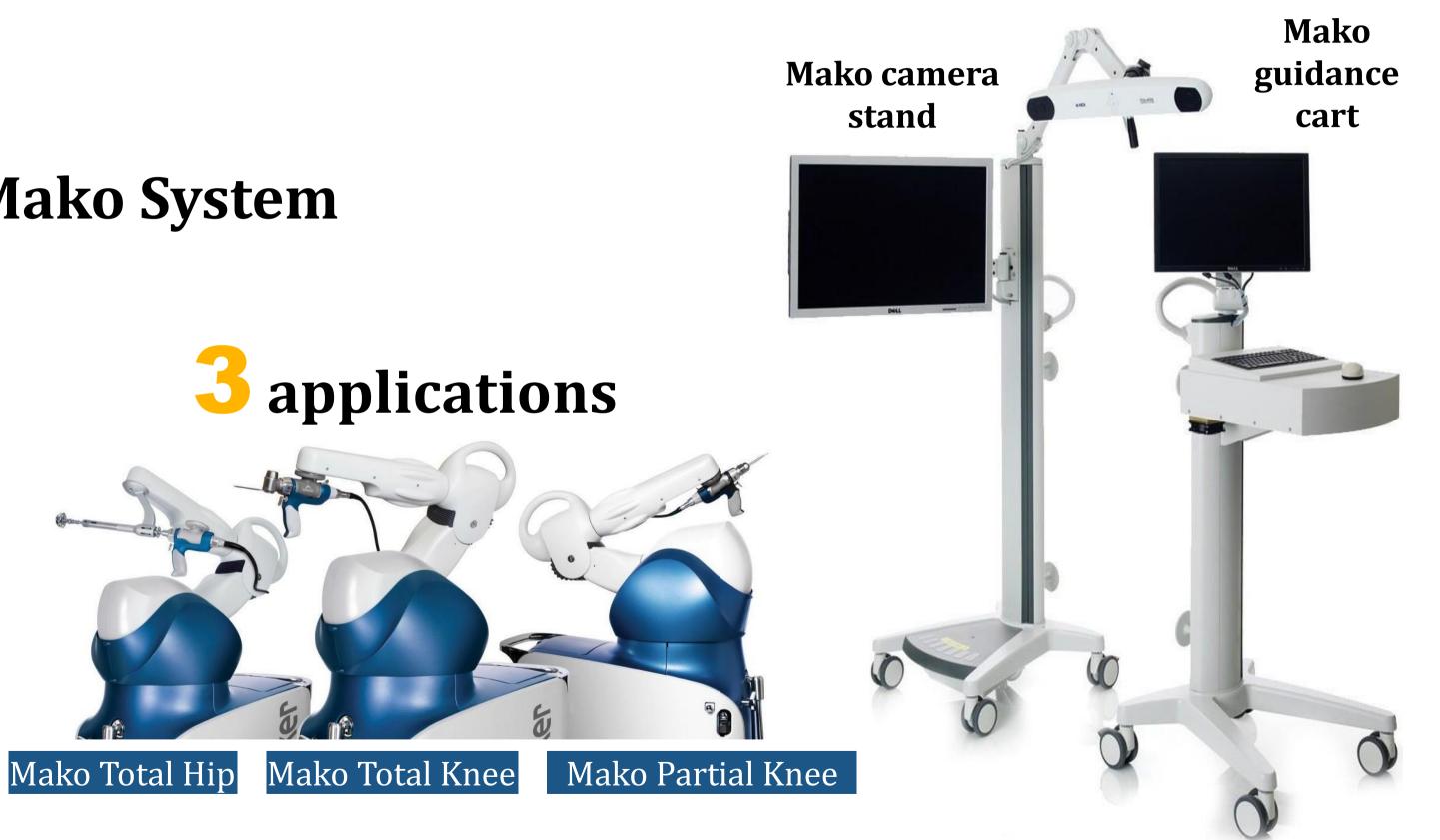




# **Mako SmartRobotics<sup>TM</sup> System**



Mako System

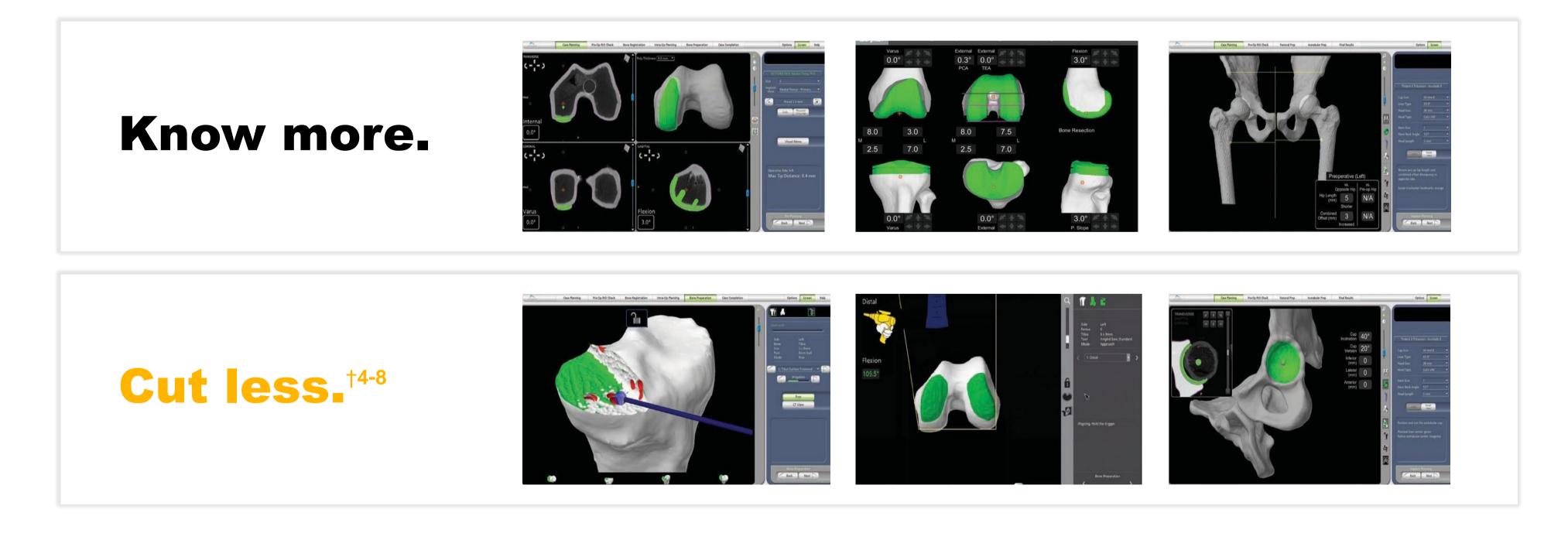


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# **Mako SmartRobotics**<sup>™</sup>

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



\*\*Access to data analytics offering requires execution of a separate agreement.

<sup>†</sup> For Mako Total Knee application, "cut less" refers to less soft tissue damage and greater bone preservation compared to manual surgery.<sup>5,6</sup> For the Mako Total Hip and Partial Knee applications, "cut less" refers to greater bone preservation as compared to manual surgery.<sup>4,7,8</sup>



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# AccuStop<sup>™</sup> haptics

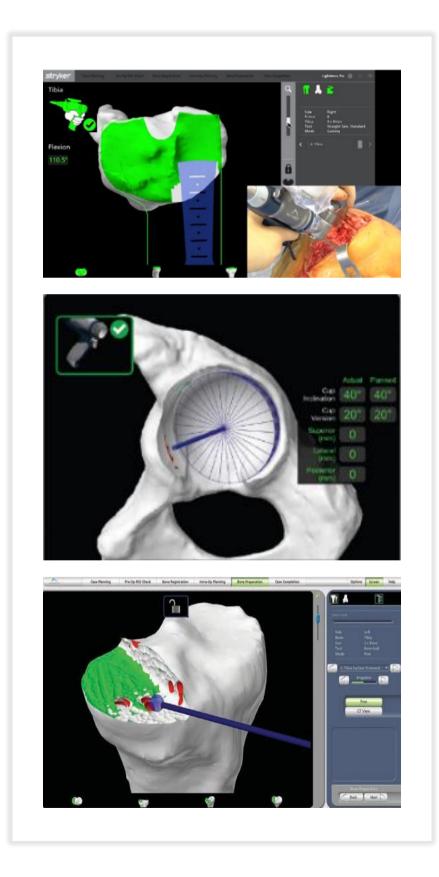
### Mako AccuStop™ haptics...

- Constrains the cutting tool within a virtual boundary that is established by the surgeon's patient-specific plan
- Is no longer limited by cutting blocks and manual techniques

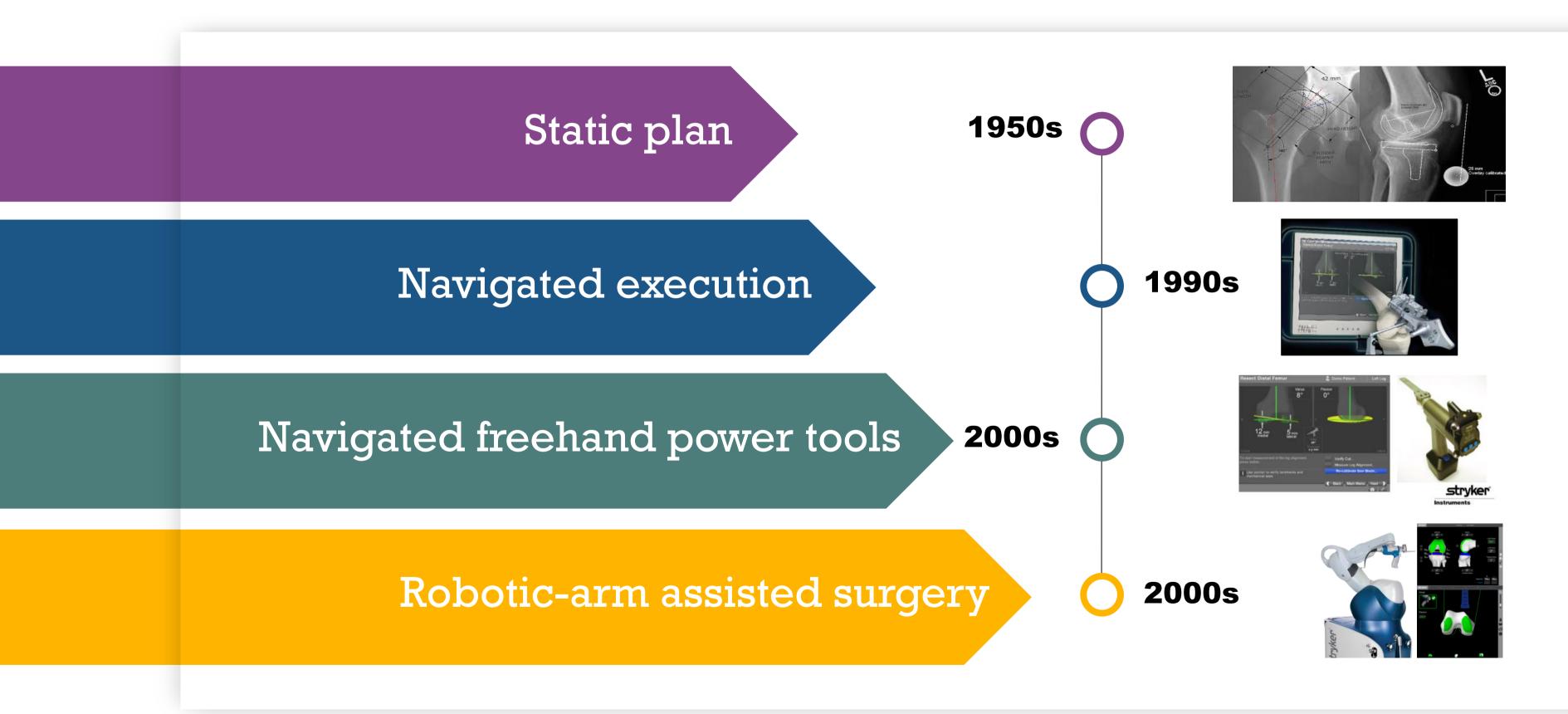
### Mako AccuStop<sup>™</sup> haptics has demonstrated...

- Greater **precision to plan** compared to manual TKA<sup>19</sup>
- Less bone and soft tissue damage compared to manual TKA<sup>5</sup>
- More accurate cup positioning to plan when compared to manual THA<sup>20</sup>
- Greater **bone preservation** in Mako PKA and THA<sup>4,8</sup>





### **Evolution of planning and execution orthopaedic technology**

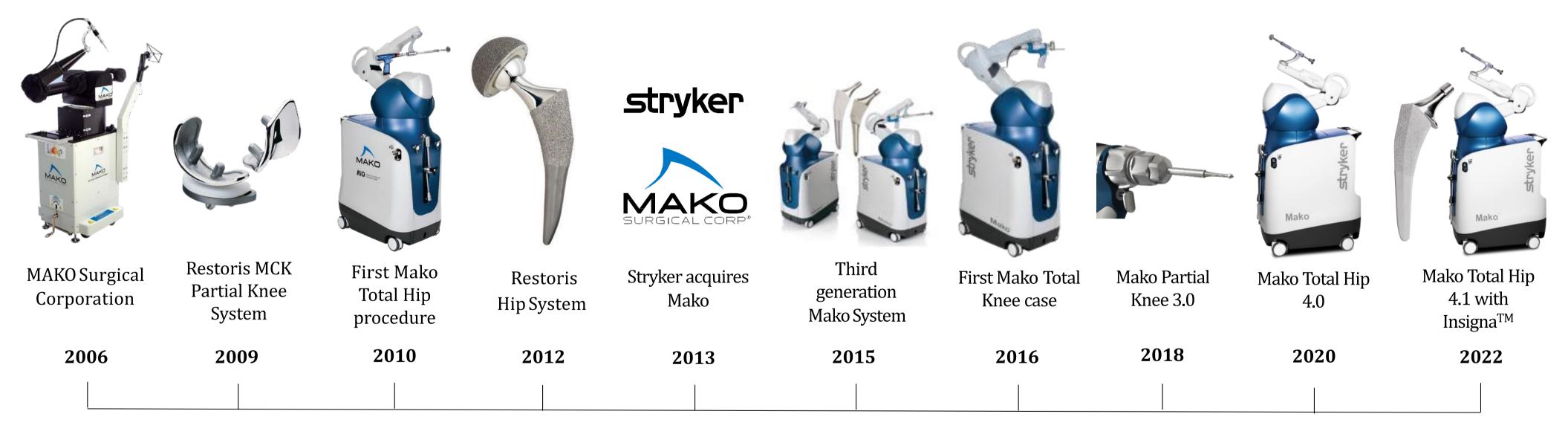




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# **Evolution of Mako SmartRobotics<sup>TM</sup>**





# The Mako advantage

# Mako is the only SmartRobotics<sup>™</sup> System

with 16 years of robotic-arm assisted surgery experience.

# No other technologies in the market currently offer

these comprehensive solutions.

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\*Access to data analytics offering requires execution of a separate agreement.



	Mako
ch date and indications	Partial knee – 2006 Total hip – 2010 Total knee – 2016
Imaging	CT scan
preparation guidance	Haptically guided cutting with robotic arm
eting claims	Enhanced pre-op planning Dynamic joint balancing Haptic guidance
ta analytics offering	HRO, RecoveryCOACH (Insightful Data Analytics)*

# Leading a robotics market



**16** years

robotic-arm assisted surgery experience





have been performed\*





teaching

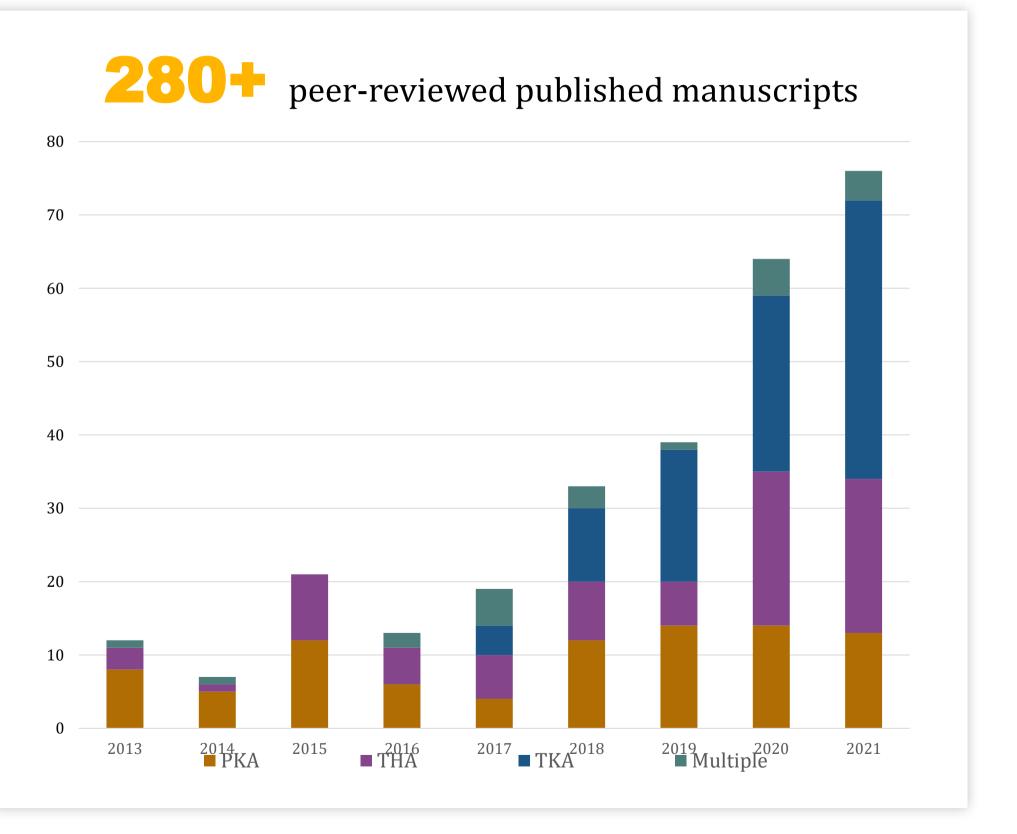
institutions

36 countries and every state in the contiguous U.S.\*

have been installed across

have Mako Systems\*

have Mako Systems\*

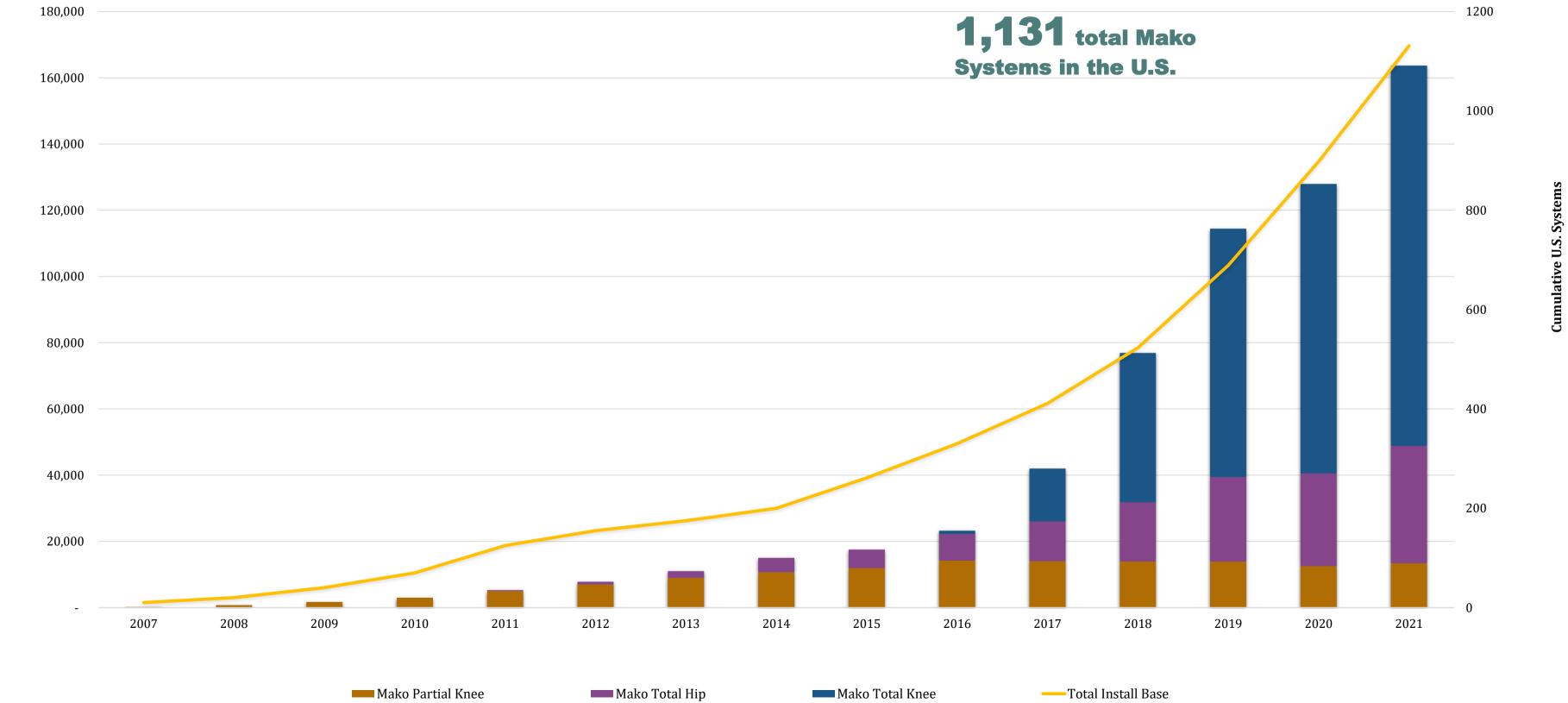




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# Leading a robotics market **U.S. Mako growth\***





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# MakoClinicalapplications





# Mako Partial Knee



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# **Clinical success** | **Partial Knee**

# Mako Partial Knee has demonstrated... **More accurate** implant placement to plan and **55.4% less pain** from day 1 to week 8 postoperative compared to manual partial knees with Oxford in a randomized controlled trial<sup>1,22</sup> **97% survivorship** at 5- to 6-year follow-up, which outperformed other large cohort studies (94.2%) and annual registries (93.1%)<sup>18</sup> **98.4% registry survivorship** at 1 year in the Australian registry<sup>21</sup> 8% survivorship at 10-year follow-up<sup>23</sup>



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# Mako Total Knee



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# Mako Total Knee fast facts\*

5 years on the market

+67 published peer-reviewed studies

**50%** of Mako Total Knees are cementless



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# +250k world-wide cases performed since launch

# **44%** of primary Stryker knees are put in with Mako

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# Challenges in total knee arthroplasty

**20% patient dissatisfaction**<sup>24</sup>





Infection

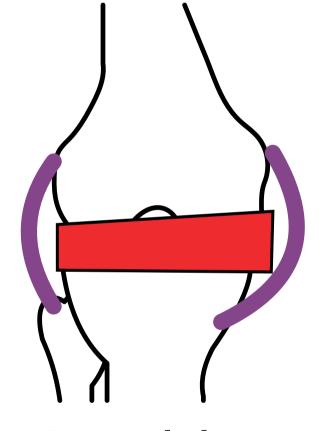


Malalignment

Overall rate of revision could potentially be reduced by **25%** by careful ligament balancing and cementation alone<sup>25</sup>



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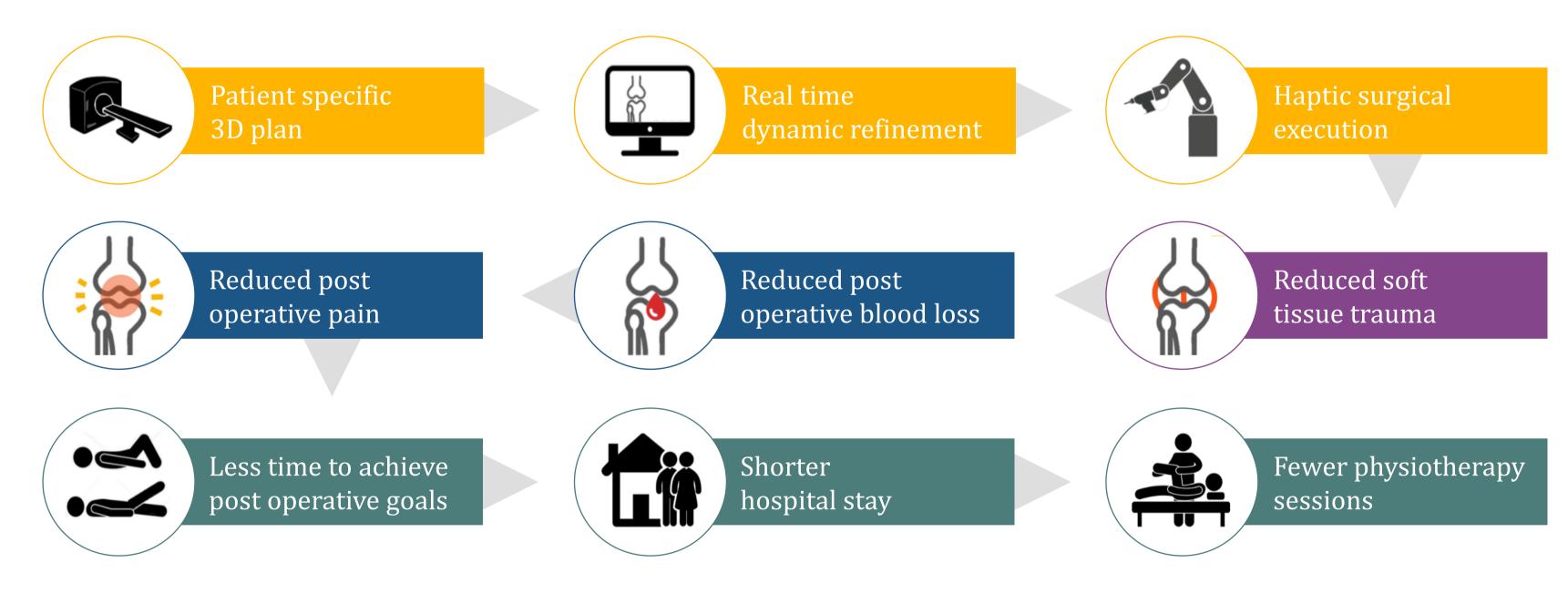


Joint imbalance (Leads to other indicators of revision)

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# Mako Total Knee clinical story<sup>5,9</sup>

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





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# **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>9</sup> and 30 patients<sup>5</sup> in each cohort) concluded that Mako Total Knee with Triathlon was associated with:

- Less bone and soft tissue damage<sup>5</sup> (p < 0.05)
- Less need for opiate analgesics<sup>9</sup> (p<0.001)
- Less time to hospital discharge<sup>9</sup> (26% reduction in LOS)
- Less need for inpatient physical therapy sessions<sup>9</sup> (p<0.001)
- Less postoperative pain<sup>9</sup> (p<0.001)



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# Mako Total Hip





# **Clinical success** | Total Hip

# Mako Total Hip has demonstrated...

- Enhanced acetabular component placement accuracy and reduced dislocation rates when compared with manual THA<sup>2</sup>
  - Favorable short-term patient reported outcomes<sup>26-28</sup>
- The highest Forgotten Joint Score reported in literature for THA<sup>28</sup>
- Decreased length of stay<sup>29</sup>



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# Healthcare Economics



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# **Economic outcomes | Partial Knee**

# Mako Partial Knee has demonstrated...

- Reduced number of PT sessions and earlier achievement of PT goals<sup>30</sup>
- Reduced revision surgery<sup>15,18,21,23,31-36</sup>
  Reduced payer costs<sup>15</sup>



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# **Economic outcomes | Total Knee**

# Mako Total Knee has demonstrated...

- Reduced pain and use of pain medications<sup>9-11</sup>
- **Reduced** utilization and cost of health services such as skilled nursing, home health aide, readmissions and emergency room<sup>12-14</sup>
- Reduced 90-day EOC costs for Medicare and private payer<sup>12,14</sup>





# **Economic outcomes | Total Hip**

# Mako Total Hip has demonstrated...

- Reduced utilization of post index rehabilitation services such as skilled nursing, home health aide and inpatient rehab<sup>37</sup>
- Reduced 90-day EOC costs compared to manual THA<sup>37</sup>
- Reduced cumulative cost compared to manual THA for Medicare and private payer over 5 years<sup>38</sup>













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# **Dedicated to Advanced Care**



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