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Orthopaedic Consultants of Wyoming Valley

Bringing The Latest
Knee Technology
to Patients

Ask **Dr. Charlton, Dr. Mattucci or Dr. Raklewicz**
about this new Innovative Partial & Total
Knee Replacement Option offered at
Orthopaedic Consultants of Wyoming Valley..



NAVIO® Surgical System

We are recognized for **excellence** in **orthopaedics.**

Our physicians are experts in orthopedic care and innovative treatment options serving the greater Wyoming Valley communities. When you are seen by one of our experts, you know that you are being treated by an experience doctor who is focused on, and dedicated to, delivering orthopedic excellence.



William PH Charlton, MD
Orthopedic Surgeon

Dr. Charlton specializes in:

- ✓ NAVIO® Robotic Surgical System of the Knee
- ✓ Partial Knee Replacement
- ✓ Total Knee Replacement
- ✓ Total Hip Replacement

- ✓ Shoulder Replacement
- ✓ Shoulder Arthroscopy - Labral Repair
- ✓ Shoulder Arthroscopy - Rotator Cuff Repair
- ✓ Elbow Arthroscopy
- ✓ Knee Arthroscopy
- ✓ Knee Arthroscopy - ACL Repair



James M. Mattucci, MD
Orthopedic Surgeon

Dr. Mattucci specializes in:

- ✓ NAVIO® Robotics Surgical System of the Knee
- ✓ Partial Knee Replacement
- ✓ Total Knee Replacement
- ✓ Total Hip Replacement

- ✓ Knee Arthroscopy
- ✓ Knee Arthroscopy - ACL Repair
- ✓ Shoulder Arthroscopy
- ✓ Shoulder Arthroscopy - Instability Surgery
- ✓ Shoulder Arthroscopy - Rotator Cuff Repair
- ✓ Shoulder Arthroscopy - Labral Repair
- ✓ Shoulder Replacement



Michael C. Raklewicz, MD
Orthopedic Surgeon

Dr. Raklewicz specializes in:

- ✓ NAVIO® Robotic Surgical System of the Knee
- ✓ Partial Knee Replacement
- ✓ Total Knee Replacement

- ✓ Total Hip Replacement
- ✓ Ankle Arthroscopy
- ✓ Knee Arthroscopy

Dr. Charlton earned his undergraduate degree from Penn State University, his Medical degree from Jefferson Medical College and completed his residency at the Rothman Institute. Dr. Charlton also completed a sports medicine fellowship at Kerlan-Jobe Orthopaedic Clinic in Los Angeles, California. Dr. Charlton is a board-certified surgeon with sub-specialty certification in Sports Medicine. He maintains membership in the American Academy of Orthopaedic Surgeons.

Dr. Mattucci received his undergraduate degree from Yale University and his Medical degree from Temple University School of Medicine. He completed an internship in general surgery at the Graduate Hospital and a residency in orthopaedic surgery from MCP Hahnemann University Hospital.

Dr. Mattucci completed fellowships in sports medicine at the University of Pennsylvania Hospital and MCP Hahnemann University Hospital. Dr. Mattucci is a board-certified orthopaedic surgeon. He maintains memberships in the American Academy of Orthopaedic Surgeons, the American Medical Association and the Philadelphia Orthopaedic Society.

Dr. Raklewicz earned his Bachelor's degree and Medical degree from the University of Pittsburgh. He completed a medical internship at Presbyterian University Hospital in Pittsburgh. He completed orthopaedic research at Rancho Los Amigos Hospital in Downey California before completing an orthopaedic residency at the University of Pittsburgh Program and Affiliated Hospitals.

Dr. Raklewicz is a board-certified orthopaedic surgeon. He maintains memberships in the American Academy of Orthopaedic Surgeons, Pennsylvania Medical Society and the Luzerne County Medical Society.



390 Pierce Street
Kingston, PA 18704
www.orthoconsultwv.com

To schedule an appointment with one of these highly-trained Orthopedic Surgeons, please call today.

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Knee Pain:

Don't suffer another day

Precision Total and Partial knee Replacement Through Robotics

Dr. Eric Green and St. Cloud Surgical Center offer Partial and Total Knee Replacement utilizing the NAVIO® Surgical System - a CT-Free robotic-assisted platform. NAVIO® is a tool designed to help your surgeon correctly size and position the knee implant. *Attend this event to find out if you are a candidate.*

St. Cloud Surgical Center offers Partial & Total Knee Replacement in an Outpatient Setting.
Go Home The Same Day Of Your Procedure.

Attend our free seminar to learn more about these options.

call **507.200.2263**

or go online to register

visit: www.stcsurgicalcenternavio.com

Featuring



Eric Green, MD
Orthopaedic Surgeon

Certified orthopaedic surgeon with St. Cloud Surgical Center



1526 Northway Drive, St. Cloud, MN 56303



Monday, November 12, 2018
6:00 pm - 7:30 pm

(Food and drinks provided)

Event Location:

Marshall Area YMCA

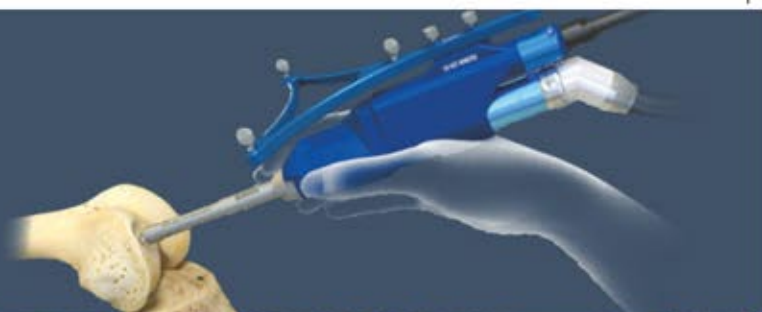
200 S A Street, Marshall MN 56258

SPACE IS LIMITED!



Knee Pain:

Don't suffer another day.



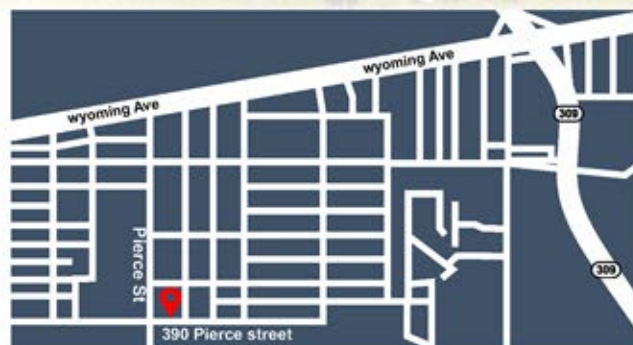
Precision total and partial knee replacement through robotics

Take back your life! Now there are advanced robotic assisted technology options for treating painful knee conditions – options that can **get you back in action** faster than ever before. This new innovative technique is offered by local NAVIO-trained orthopedic surgeon Dr. Michael Raklewicz at Orthopaedic Consultants of Wyoming Valley.

Using this state of the art technology, the NAVIO® Surgical System works with the surgeon's skilled hands to achieve precise positioning of the implant for consistently accurate results.



Michael C. Raklewicz, MD
Orthopedic Surgeon



390 Pierce Street
Kingston, PA 18704

To schedule an appointment with one of these highly-trained Orthopedic Surgeons, please call today.

570.215.8193

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Don't let knee pain
keep you from
enjoying your life.

**THE NAVIO[®] ROBOTICS-ASSISTED SURGICAL SYSTEM—
IMPROVING FUNCTION, FEEL AND LONGEVITY OF KNEE REPLACEMENTS.**

Saint Peter's University Hospital is now offering robotics-assisted partial and total knee replacement using the NAVIO[®] Surgical System, a CT-free platform that delivers consistent and accurate results. Because no two knees are alike, the system works in conjunction with our surgeon's skilled hands to customize each procedure and achieve precise positioning of components during surgery. This level of accuracy can help improve the function, feel and longevity of the knee implant.

For details, call 732-745-8600 or visit saintpetershcs.com/navio



Treating you better...for life.

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ATTEND OUR FREE SEMINAR TO LEARN MORE ABOUT THIS OUTPATIENT PROCEDURE.
Thursday, June 21, 2018 • 6 p.m. • Visit saintpetersknee.com or call 732.210.0699 to register

Address your knee pain.

Through **robotic assistance** in an **out-patient** setting and go home the same day!



Tuesday, April 18th
6:00pm to 7:30pm



MOVEMENT**ORTHOPEDICS**
GET BACK TO IT.

Discover a Less Invasive Approach to Hip Replacement Surgery

Direct Anterior Hip Replacement Seminar



If your hip is keeping you from enjoying life to the fullest, consider direct anterior hip replacement surgery.

This less-invasive procedure is much easier on the patient because there is less tissue and muscle damage involved in the surgery. Dr. Jeffrey S. Dulik and Dr. Dean J. Marshall of Spectrum Orthopaedics has performed many of the Direct Anterior Approach hip replacement surgeries. They will explain the technique, outline the benefits and answer questions at a free, open-to-the-public seminar to be held at Ohio Specialty Surgical Suites.

ATTEND OUR SEMINAR TO LEARN MORE ABOUT THIS PROCEDURE.

FEATURING



Dr. Jeffrey S. Dulik
Orthopaedic Surgeon



Dr. Dean J. Marshall
Orthopaedic Surgeon

Thursday, Nov. 8, 2018
6:30 pm (Light refreshments will be served)

Event Location:

Ohio Specialty Surgical Suites
7442 Frank Ave NW
North Canton, OH 44720

Please register by

Wednesday, November 7, 2018

Call: 330.339.3060



**OHIO SPECIALTY
SURGICAL SUITES
LLC**

Address your knee pain...

Through robotic assistance in an outpatient setting and go home the same day!

Spectrum Orthopaedics offers partial and total knee replacement utilizing the **NAVIO® Surgical System** - a CT-Free robotic-assisted platform. The **NAVIO® Surgical System** is a tool your surgeon uses to correctly size and position the total or partial knee implant with computer and robotic assistance.

Computer assistance is used to collect the unique shape and motion of your knee to virtually plan the procedure. Robotic assistance is used to accurately perform the procedure. The extra layer of planning and precision provided by the **NAVIO®** system aims to ensure the procedure is performed exactly as your surgeon intends. The **NAVIO®** system does not perform the procedure, rather it assists the surgeon by providing accuracy and precision crucial to the success of the surgery.

Os3 offers Partial & Total Knee Replacement In an Outpatient Setting...
Go Home The Same Day Of Your Procedure.

ATTEND OUR FREE SEMINAR TO LEARN MORE ABOUT THIS OUTPATIENT PROCEDURE.

RSVP / Registration required. Call (330) 271-6885 | Space is limited!
Or register online at: spectrumorthokneepain.com/events

Featuring:



Tim K. Conlan, MD
Orthopaedic Surgeon



Michael L. Lykins, DO
Orthopaedic Surgeon

Tuesday, November 6, 2018
6:00pm to 7:00pm (Appetizers will be served)

EVENT LOCATION:



Shisler Conference Center
1680 Madison Avenue, Wooster, OH. 44691



1 Hall et al., "Unicompartmental Knee Arthroplasty (Alias Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Repici, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

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LLC**
IN PARTNERSHIP WITH
**SPECTRUM
ORTHOPAEDICS**

Discover a Less Invasive Approach to Hip Replacement Surgery



November 8, 2018

DIRECT ANTERIOR HIP REPLACEMENT SEMINAR

If your hip is keeping you from enjoying life to the fullest, consider direct anterior hip replacement surgery.

This less-invasive procedure is much easier on the patient because there is less tissue and muscle damage involved in the surgery. Dr. Jeffrey S. Dulik and Dr. Dean J. Marshall of Spectrum Orthopaedics has performed many of the Direct Anterior Approach hip replacement surgeries. They will explain the technique, outline the benefits and answer questions at a free, open-to-the-public seminar to be held at Ohio Specialty Surgical Suites. **Light refreshments will be served.**

FEATURING



Dr. Jeffrey S. Dulik
Orthopaedic Surgeon



Dr. Dean J. Marshall
Orthopaedic Surgeon

WHEN

Thursday
November 8, 2018 - 6:30 pm

WHERE

Ohio Specialty Surgical Suites
7442 Frank Ave NW
North Canton, OH 44720

REGISTER

Please register by
Wednesday, November 7, 2018
by phone: 330.339.3060



OHIO SPECIALTY
SURGICAL SUITES
LLC



Discover a Less Invasive Approach to Hip Replacement Surgery

Direct Anterior Hip Replacement Seminar

If your hip is keeping you from enjoying life to the fullest, consider direct anterior hip replacement surgery.

This less-invasive procedure is much easier on the patient because there is less tissue and muscle damage involved in the surgery. Dr. Jeffrey S. Dulik and Dr. Dean J. Marshall of Spectrum Orthopaedics has performed many of the Direct Anterior Approach hip replacement surgeries. They will explain the technique, outline the benefits and answer questions at a free, open-to-the-public seminar to be held at Ohio Specialty Surgical Suites.

ATTEND OUR SEMINAR TO LEARN MORE ABOUT THIS PROCEDURE.

Thursday, Nov. 8, 2018

6:30 pm (Light refreshments will be served)

Event Location:

Ohio Specialty Surgical Suites
7442 Frank Ave NW
North Canton, OH 44720

Please register by

Wednesday, November 7, 2018

Call: 330.339.306

FEATURING



Dr. Jeffrey S. Dulik
Orthopaedic Surgeon



Dr. Dean J. Marshall
Orthopaedic Surgeon



**OHIO SPECIALTY
SURGICAL SUITES
LLC**
IN PARTNERSHIP WITH
SPECTRUM
ORTHOPAEDICS

Knee Pain:

Don't suffer another day.

SAMPLE

Precision total and partial knee replacement through robotics

Bassett Healthcare Network offers partial and total knee replacement utilizing the NAVIO® Surgical System - a CT-Free robotic-assisted platform. The Navio Surgical System is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the Navio Surgical system, you may experience less pain¹, a more normal feeling knee¹ and quicker rehabilitation¹.

Doctors Wetzels, LaBuddes, Scott and Diaz will help you understand your options for knee care. He will discuss the latest technologies available and answer many of your questions on **Wednesday, April 25, May 23, June 21, 2018** from 5:30 p.m. - 7:30 p.m.

Attend our free seminar to learn more about these options.

Featuring:



F. Todd Wetzels, MD
Orthopaedic Surgeon



Jackson L. LaBuddes, MD
Orthopaedic Surgeon



James Scott, MD
Orthopaedic Surgeon



Michael R. Diaz, MD
Orthopaedic Surgeon

CALL
(607) 215-4157
TO REGISTER

or visit:
www.feelbetterwithbassett.com

Event Locations

Wednesday, April 25

Oneonta

FoxCare Center – John Remillard
Conference Center
1 FoxCare Drive off of Route 7
Oneonta, NY 13820

Wednesday, May 23

Herkimer

Herkimer Health Center
Primary Care Lobby
321 East Albany Street
Herkimer, NY 13350

Wednesday, June 21

Delhi

O'Connor Hospital
Board Conference Room
460 Andes Road
Delhi, NY 13753



**Bassett Healthcare
Network**

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¹ Hall et al., "Unicompartmental Knee Arthroplasty (Allas Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Repicci, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

Knee Pain:

Don't suffer another day.



Precision total and partial knee replacement through robotics

Commonwealth Health Wilkes-Barre General Hospital offers partial and total knee replacement utilizing the NAVIO® Surgical System - a CT-Free robotic-assisted platform. The NAVIO® Surgical System is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the Navio Surgical system, you may experience less pain¹, a more normal feeling knee¹ and quicker rehabilitation¹.

Doctor Raklewicz will help you understand your options for knee care. They will discuss the latest technologies available and answer many of your questions on Thursday, September 27, 2018 from 6:00 p.m. - 7:30 p.m.



Attend our free seminar to learn more about these options.

call 570.209.5728 or go online to register at:
[www.http://commonwealthhealth-kneepain.com](http://commonwealthhealth-kneepain.com)

Featuring
Dr. Michael Raklewicz

Thursday, September 27, 2018
6:00 pm - 7:30 pm

(Refreshments and appetizers will be served)

Event Location:

Mohegan Sun Pocono Convention Center - Anthracite Room
1280 Highway 315, Wilkes-Barre, Pennsylvania 18702



Dr. Michael Raklewicz
Orthopedic Surgeon

*Dr. Michael Raklewicz is an independent member
of the Medical Staff of Wilkes-Barre General Hospital.*

**Commonwealth
Health**
Wilkes-Barre General Hospital

575 North River Street, Wilkes-Barre, PA 18764
www.commonwealthhealth-navio.com

1 Hall et al., "Unicompartmental Knee Arthroplasty (Alas Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Repicci, JA, et al., "Minimally Invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

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Knee Pain:

Don't suffer another day.

Precision total and partial knee replacement through robotics

Memorial Medical Center offers partial and total knee replacement utilizing the **NAVIO® Surgical System** - a CT-Free robotic-assisted platform. The **NAVIO® Surgical System** is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the **NAVIO® Surgical System**, you may experience less pain¹, a more normal feeling knee and quicker rehabilitation¹.

Doctors Signorelli and Cummins will help you understand your options for knee care. They will discuss the latest technologies available and answer many of your questions.

Attend our free seminar to learn more about these options.

call 715.257.0862

or go online to register at:

www.ashlandmmcnario.com/event

Tuesday, Oct. 16, 2018

6:00 pm - 7:30 pm

Event Location:

Harbor View Event Center

(Formerly Steak Pit)

130 Harbor View Drive

Washburn, WI, 54891

Thursday, Oct. 25, 2018

6:00 pm - 7:30 pm

Event Location:

AmericInn

3009 Lake Shore Drive East

Ashland, WI 54806

(Refreshments will be served)

FEATURING:



Dr. Joseph Signorelli
Orthopedic Surgeon



Dr. Justin Cummins
Orthopedic Surgeon



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Right here in the place we love.

1615 Maple Lane, Ashland, WI 54806

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1 Hall et al., "Unicompartmental Knee Arthroplasty (Alias Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Resicci, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

Is Knee Pain Holding You Back?

Attend our NAVIO® Robotic Knee Replacement Seminar

Memorial Medical Center offers partial and total knee replacement utilizing the NAVIO® Surgical System - a CT-Free robotic-assisted platform. The NAVIO® Surgical System is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the NAVIO® Surgical System, you may experience less pain¹, a more normal feeling knee and quicker rehabilitation².

Dr. Signorelli and Dr. Cummins will help you understand your options for knee care. They will discuss the latest technologies available and answer many of your questions.



Attend our free seminar to learn more about these options.

call 715.257.0867 or go online to register at: www.ashlandmmcnavigo.com/event

Featuring Dr. Joseph Signorelli
and Dr. Justin Cummins

Tuesday, September 18, 2018
6:00 pm - 7:30 pm

Event Location:

Barkers Island In

300 Marina Drive, Superior, WI 54880
(Refreshments will be served.)



Dr. Joseph Signorelli
Orthopedic Surgeon



Dr. Justin Cummins
Orthopedic Surgeon



**Memorial
Medical Center**
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¹ Hall et al., "Unicompartmental Knee Arthroplasty (Unicomp Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. ² Rapicci, JA, et al., "Minimally Invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

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Knee Pain:

Don't suffer another day.



Precision total and partial knee replacement through robotics

St. Peter's Hospital Joint Replacement Center offers partial and total knee replacement utilizing the **NAVIO® Surgical System - a CT-Free robotic-assisted platform**. The Navio Surgical System is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the Navio Surgical system, you may experience less pain¹, a more normal feeling knee¹ and quicker rehabilitation¹.

J. David Abraham, MD will share information on your options for knee care. He will discuss the latest technologies available and answer many of your questions on **Wednesday, June 6, 2018 from 6 p.m. - 7:30 p.m.**



Attend our free seminar to learn more about these options.

CALL 518.290.1665 TO REGISTER

or visit

www.stpetersnaviorobot.com

Featuring:

J. David Abraham, MD

Wednesday, June 6, 2018

6 p.m. - 7:30 p.m.

Event Location:

MERCY AUDITORIUM

St. Peter's Hospital Campus
310 S. Manning Boulevard, Albany
(Across the street from the hospital)



St Peter's Hospital
Joint Replacement Center

ST PETER'S HEALTH PARTNERS

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Your bone and joint experts

1 Hall et al., "Unicompartmental Knee Arthroplasty (Alias Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Repicci, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

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Knee Pain:

Don't suffer another day.



Precision total and partial knee replacement through robotics

St. Peter's Hospital Joint Replacement Center offers partial and total knee replacement utilizing the NAVIO® Surgical System - a CT-Free robotic-assisted platform. The Navio Surgical System is a tool designed to help your surgeon correctly size and position the total or partial knee implant with computer and robotic assistance. Attend this event to find out if you are a candidate for partial knee or total knee replacement. Using the Navio Surgical system, you may experience less pain¹, a more normal feeling knee¹ and quicker rehabilitation¹.

J. David Abraham, MD will share information on your options for knee care. He will discuss the latest technologies available and answer many of your questions on **Monday, October 22, 2018** from 6:00 p.m. - 7:30 p.m.



Attend our free seminar to learn more about these options.

call **518.290.1378**

to register or visit www.stpetersnaviorobot.com

Featuring:

J. David Abraham, MD

Wednesday, June 6, 2018

6:00 p.m. - 7:30 p.m.

Event Location:

MERCY AUDITORIUM

(Across the street from the hospital)

St. Peter's Hospital Campus
310 S. Manning Boulevard
Albany, NY 12208



St Peter's Hospital
Joint Replacement Center

ST PETER'S HEALTH PARTNERS

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Your bone and joint experts.

1 Hall et al., "Unicompartmental Knee Arthroplasty (Alias Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171. 2 Repicci, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopedic Association, 1999 Spring; 8(1): 20-7. Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Partial Knee Replacement. NAVIO is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO is right for you.

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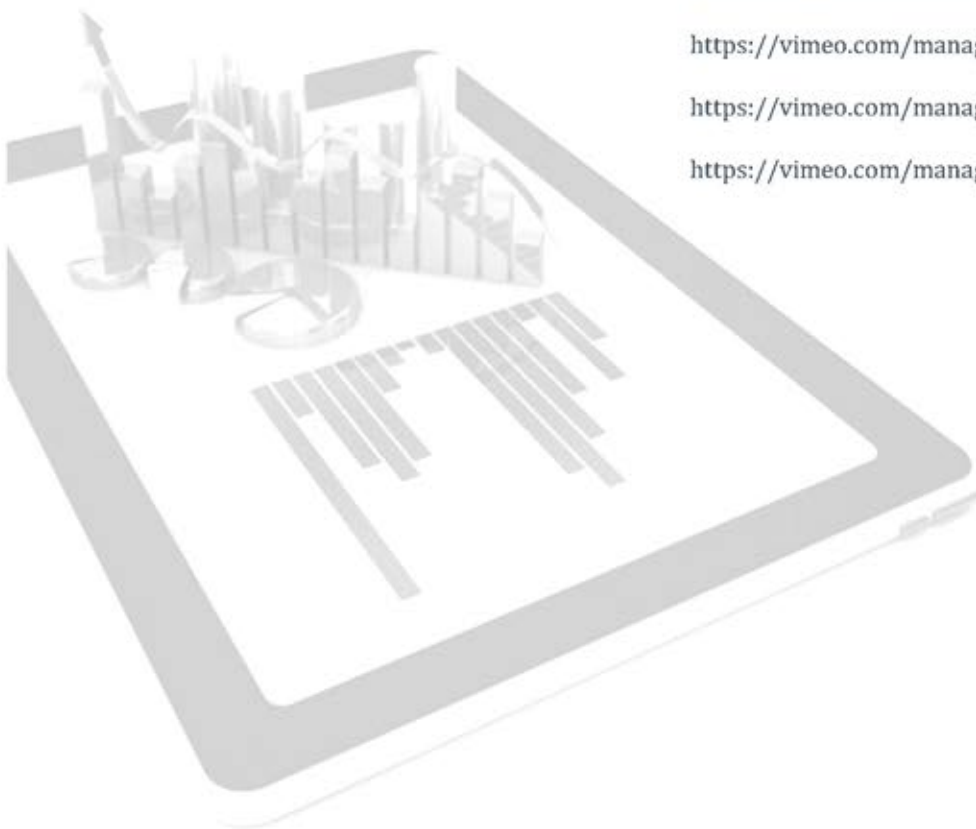
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"I feel like I can enjoy my life again. I just wish I hadn't waited so long."
- Maria Leticia Duarte

What can NAVIO® Robotics-assisted partial knee replacement mean for you?

- Consistent results¹
- Accurately placed implants¹
- Customized planning
- No CT-scan required

Partial knee replacement offers several benefits over total knee replacement:

- Less pain²
- A more normal feeling knee²
- Smaller incisions³
- Quicker rehabilitation²

What's my next step?

Ask your surgeon:

- Is my knee pain caused by osteoarthritis?
- Is NAVIO Robotics-assisted partial knee replacement right for me?
- How does my age, lifestyle and overall health affect my treatment options?
- What are the risks associated with surgery?

Find out more about beating pain and returning to the activities you love.

Speak with orthopedic surgeon Dr. Mark Gittins. Call **641-289-6426** to book an appointment. Visit www.Dr-Mark-Gittins.com to learn more.



Dr. Mark Gittins
Orthopedic Surgeon

OrthoNeuro For every motion in life. **New Albany SURGERY CENTER**

5040 Forest Dr, Suite 100 • New Albany, OH 43054

The NAVIO™ system is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Knee replacement surgery is intended to relieve knee pain and improve knee functions. However, implants may not produce the same feel or function as your original knee. There are potential risks with knee replacement surgery such as loosening, fracture, dislocation, wear and infection that may result in the need for additional surgery.

Longevity of implants depends on many factors, such as types of activities and weight. This information is for educational purposes only and is not intended as medical advice. Consult your physician for details to determine if NAVIO robotics-assisted procedure is right for you.

The NAVIO system is intended to assist the surgeon in providing software-defined spatial boundaries for orientation and reference information to anatomical structures during orthopedic procedures. The NAVIO system is indicated for use in surgical knee procedures, in which the use of stereotactic surgery may be appropriate, and where reference to rigid anatomical bony structures can be determined. These procedures include unicompartmental knee replacement (UKR), patellofemoral arthroplasty (PFA), and total knee arthroplasty (TKA). The NAVIO system is indicated for use with cemented implants only.

¹ Lonner J., Smith J., et al., High Degree of Accuracy of a Novel Image-free Handheld Robot for Unicompartmental Knee Arthroplasty in a Cadaveric Study. Clin Orthop Relat Res 2014 Jul 8. Epub 2014 Jul 8.

² Hall et al., "Unicompartmental Knee Arthroplasty (Alas Uni-Knee): An Overview With Nursing Implications," Orthopedic Nursing, 2004; 23(3): 163-171.

³ Repicci, JA, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopedic Association, 1999 Spring; 8(1): 20-7.

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Does knee pain keep you from what you love?



The NAVIO® Surgical System can help your surgeon **get you back in action** with accurate and precise partial knee replacement.

OrthoNeuro
For every motion in life.

New Albany
SURGERY CENTER

Knee pain makes a big difference in your life. So can NAVIO® Robotics-assisted partial knee replacement.

What causes knee pain?

Millions of people suffer from osteoarthritis, which occurs when there is a breakdown in the cushioning cartilage between joints, such as the knee. When this cartilage wears down, bones begin to rub against each other causing pain, swelling, stiffness and damage to other parts of the knee.

What can be done about it?

While there is no cure for osteoarthritis, there are multiple treatment options to manage pain and potentially delay the progression of the disease. Your doctor may prescribe exercises, weight loss or medication. If osteoarthritis progresses to an advanced stage and is causing severe pain, surgery may be the best option.

Instead of masking the pain or accommodating limited mobility, partial knee replacement – where the surgeon replaces only the diseased part of the knee – is a solution that can benefit sufferers of early to mid-stage osteoarthritis. While total knee replacement is the most common surgical treatment for osteoarthritis, ask your doctor if partial knee replacement is right for you. If so, there is advanced technology for partial knee replacement that can help your surgeon perform the procedure with a high level of accuracy and precision.¹



What is NAVIO Robotics-assisted partial knee replacement?

The NAVIO system is an advancement in the way orthopedic surgeons perform partial knee replacement. The system works in conjunction with the surgeon's skilled hands to achieve the precise positioning of the knee implant based on each patient's unique anatomy. This added level of accuracy can help improve the function, feel and potential longevity of the partial knee implant.

Robotics-assisted handpiece designed to enable access through smaller incisions

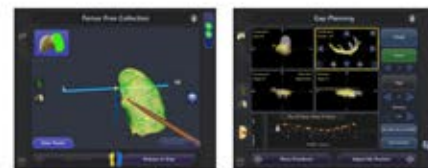
Advanced instrumentation designed to enforce bone resurfacing within the surgeon-defined plan

Computer assistance designed to ensure consistent and accurate results



How does the NAVIO system achieve these results?

The NAVIO system provides robotic assistance through an advanced computer program that relays precise information about your knee to a robotics-assisted handpiece used by the surgeon during the procedure. By collecting patient-specific information, boundaries are established for the robotics-assisted handpiece so the surgeon can remove the damaged surfaces of your knee, balance your joint, and position the implant with great precision.¹



Advanced planning software allows the surgeon to tailor the procedure to each patient.

"I feel like I can enjoy my life again.
I just wish I hadn't waited so long."

Maria Leticia Duarte
NAVIO partial knee patient

Find out more
about knee pain
and what you can
do about it.

Talk to your surgeon today.

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The NAVIO system is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Knee replacement surgery is intended to relieve knee pain and improve knee functions. However, implants may not produce the same feel or function as your original knee. There are potential risks with knee replacement surgery such as loosening, fracture, dislocation, wear and infection that may result in the need for additional surgery. Longevity of implants depends on many factors, such as types of activities and weight. This information is for educational purposes only and is not intended as medical advice. Individual results will vary. Consult your physician for details to determine if NAVIO robotics-assisted procedure is right for you.

The NAVIO system is intended to assist the surgeon in providing software-defined spatial boundaries for orientation and reference information to anatomical structures during orthopedic procedures. The NAVIO system is indicated for use in surgical knee procedures, in which the use of stereotactic surgery may be appropriate, and where reference to rigid anatomical bony structures can be determined. These procedures include unicompartmental knee replacement (UKR), patellofemoral arthroplasty (PFA), and total knee arthroplasty (TKA). The NAVIO system is indicated for use with cemented implants only.

1. Lonner J, Smith J, et al., High Degree of Accuracy of a Novel Image-free Handheld Robot for Unicompartmental Knee Arthroplasty in a Cadaveric Study. Clin Orthop Relat Res. 2014 Jul 8. Epub 2014 Jul 8.

2. Data on file. Internal document TR0923 Rev B.

Note: claims referenced in citations 1 and 2 are the result of in-vitro simulation testing have not been proven to predict clinical performance.

3. Arthritis of the Knee, American Academy of Orthopedic Surgeons. <http://orthoinfo.aaos.org/topic.cfm?topic=A00369>. Accessed 9.5.16

4. Lonner, Jesse, Moretti, Vince, "The Evolution of Image-Free Robotic Assistance in Unicompartmental Knee Arthroplasty", The American Journal of Orthopedics, May/June 2016, 249-254. Accessed June 7, 2016.

5. Hall et al., "Unicompartmental Knee Arthroplasty (Allas Uni-Knee): An Overview With Nursing Implications," Orthopaedic Nursing, 2004; 23(3): 163-171.

6. Ripicci, JA, et al., "Minimally Invasive surgical technique for unicompartmental knee arthroplasty," J South Orthopaedic Association, 1999 Spring; 8(1): 20-7.

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NAVIO[®]
Surgical System

Does knee pain keep
you from what you love?



The NAVIO Surgical System can help your surgeon
get you back in action with accurate and precise
knee replacement technology.^{1,2}

What can NAVIO[®] robotics-assisted
technology mean for you?

Consistent results^{1,2}

Accurately placed components^{1,2}

Customized planning

No CT-scan required

- Other robotics-assisted surgical platforms require a costly CT-scan, which exposes patients to unnecessary radiation equivalent to 48 chest radiographs⁴

Why partial knee replacement?

Partial knee replacement offers several benefits over total knee replacement, such as less pain⁵, a more normal feeling knee⁶, smaller incisions⁶, and quicker rehabilitation⁵

Why total knee replacement?

Total knee replacement is one of the most successful procedures in all of medicine according to the American Academy of Orthopaedic Surgeons.³ Over 90% who undergo the procedure experience a dramatic reduction in knee pain and a significant improvement in their ability to perform common activities.³

What's my next step?

Ask your surgeon:

- Is my knee pain caused by osteoarthritis?
- Am I candidate for a partial or total knee replacement?
- Is NAVIO robotics-assisted technology right for me?
- How does my age, lifestyle and overall health affect my treatment options?
- What are the risks associated with surgery?

Knee pain makes a big difference in your life. So can knee replacement with NAVIO® robotic assistance.

What causes knee pain?

Millions of people suffer from osteoarthritis, which occurs when there is a breakdown in the cushioning cartilage between joints, such as the knee. When this cartilage wears down, bones begin to rub against each other causing pain, swelling, stiffness and damage to other parts of the knee.³

What can be done about it?

While there is no cure for osteoarthritis, there are multiple treatment options to manage pain and potentially delay the progression of the disease. Your doctor may prescribe exercises, weight loss or medication. If osteoarthritis progresses to an advanced stage and is causing severe pain, surgery may be the best option.³

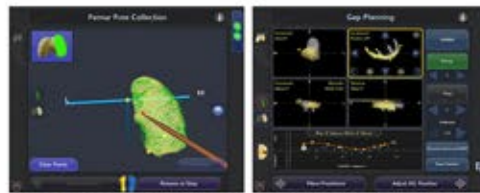
A partial or total knee replacement are common surgical options you may discuss with your doctor. Partial knee replacement—where the surgeon replaces only the diseased part of the knee—is a solution that can benefit sufferers of early to mid-stage osteoarthritis. Total knee replacement—where the surgeon replaces the entire

knee joint—is a more common procedure generally reserved for advanced osteoarthritis affecting multiple compartments of the knee. Ask your doctor if a partial or total knee replacement is right for you. With either option today, there is advanced technology that can help your surgeon perform the procedure with a high level of accuracy and precision.^{1,2}



What is a NAVIO robotics-assisted knee replacement?

The NAVIO system is an advancement in the way orthopedic surgeons perform partial and total knee replacement. Every NAVIO procedure has an individualized plan based on each patient's unique anatomy. The system works in conjunction with the surgeon's skilled hands to achieve precise positioning of components during surgery. This level of accuracy can help improve the function, feel and potential longevity of the knee implant.⁴



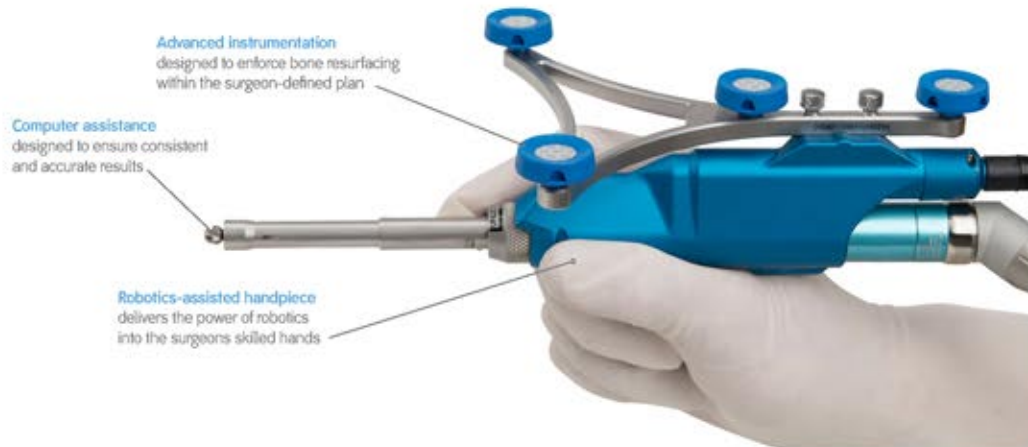
Advanced NAVIO technology helps the surgeon create a 3D map of your knee.

How does the NAVIO system achieve these results?

The NAVIO system provides robotic assistance through an advanced computer program that relays precise information about your knee to a robotics-assisted handpiece used by the surgeon during the procedure. By collecting patient-specific information, boundaries are established for the robotics-assisted handpiece so the surgeon can balance your joint and position components with accuracy and precision.^{1,2}



Advanced NAVIO technology helps the surgeon accurately position the implant.





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Orthopaedic Surgeon

Dr. Scott Strasburger is an independent physician of
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to learn if your pain could be
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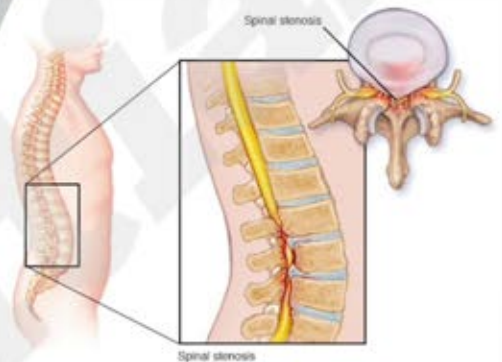
Our specialist
Dr. Christopher A. Yeung



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options to return you
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schedule an appointment today
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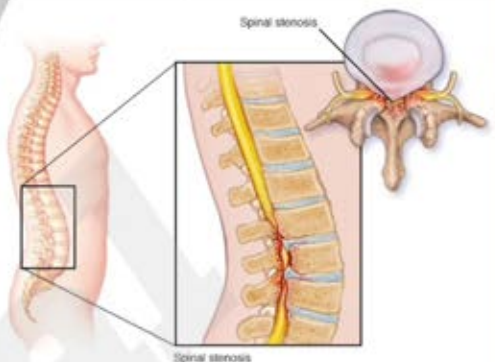
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Dr. Christopher A. Yeung



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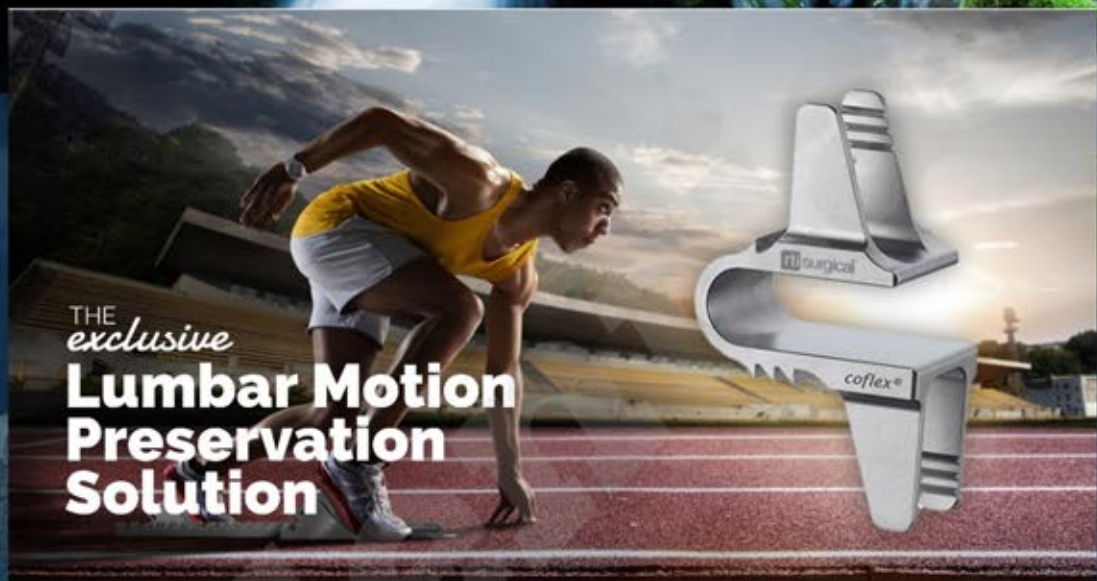
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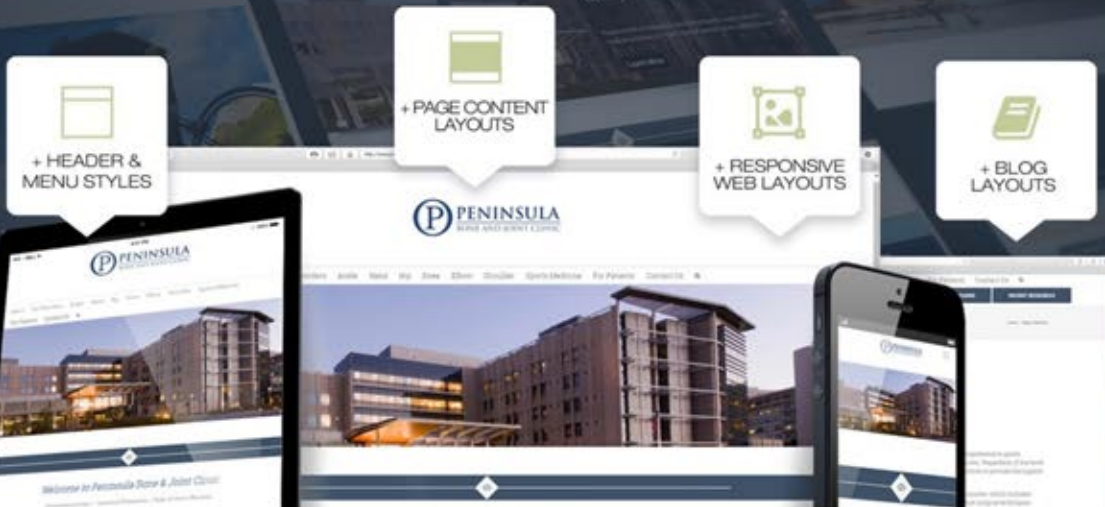
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ROBOTIC-ASSISTED PARTIAL KNEE REPLACEMENT

Introducing the NAVIO[®] Surgical System

- Robotic assistance provides accuracy and precision
- Can help improve function, feel and longevity
- Works in conjunction with a surgeon's skilled hands
- Helps achieve precise positioning of the knee implant



“As a physician-owned hospital in Oklahoma, our physicians work hand in hand with employees to diligently provide an unparalleled standard of care.”
— Mark S. Pascale, MD – President



About the NAVIO[®] Surgical System

HOW TRADITIONAL PARTIAL KNEE REPLACEMENT METHODS WORK

Using traditional surgical methods, cutting blocks or guides are placed on the thigh bone (femur) and shin bone (tibia) to help direct a surgical saw in removing the diseased bone and cartilage. This method has been considered technically challenging, as accurately placing these blocks can be difficult. In recent years, advanced surgical techniques using robotic assistance have been developed to provide a higher level of accuracy and precision.

NAVIO ROBOTICS ASSISTANCE PROVIDES ACCURACY AND PRECISION

The NAVIO system is an advancement in the way our orthopedic surgeons perform partial knee replacement. The system works in conjunction with our surgeon's skilled hands to achieve the precise positioning of the knee implant based on each patient's unique anatomy. This added level of accuracy can help improve the function, feel and potential longevity of the partial knee implant.

Through an advanced computer program, the NAVIO system provides robotic assistance that relays precise information about your knee to a robotics-assisted handpiece used by our surgeons during the procedure. By collecting patient-specific data, boundaries are established for the handpiece so we can remove the damaged surfaces of your knee, balance your joint, and position the implant with greater precision.



ADVANCED INSTRUMENTATION

Designed to enforce bone resurfacing within surgeon defined plan

COMPUTER ASSISTANCE

Designed to ensure consistent and accurate results

ROBOTICS-ASSISTED HANDPIECE

Designed to enable access through smaller incisions

Patient Success Stories



About McBride Orthopedic Hospital

The mission of McBride Orthopedic Hospital is to serve the communities of Oklahoma by providing access to excellence in orthopedic care, in an environment designed to efficiently and effectively deliver consistently superior patient outcomes.

McBride Orthopedic Hospital is proud to be a physician-owned hospital. Physician ownership reinstates the physician back into the decision-making role, which allows our physicians to deliver the highest quality of care to you. Physician-owned healthcare organizations provide high quality, efficient, patient-focused care, equal access, patient choice, price transparency and higher patient satisfaction.

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Tell us a little bit about yourself using the form below. We'll call you to confirm your appointment.

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MINIMALLY INVASIVE HIP REPLACEMENT

Schedule an appointment if you experience any of the following symptoms:

- Severe Hip Pain
- Hip Osteoarthritis
- Moderate Pain While Resting
- Hip Swelling
- Limited Hip Movement
- Hip Inflammation
- Hip Stiffness
- Bowing of Your Leg
- Everyday Activities Limited
- NSAIDs Are Ineffective

Dr. Kang practices in several locations throughout the Las Vegas area. He is accepting new patients and utilizes the most advanced technology in hip orthopedics. Schedule an appointment today to discuss your options to address a treatment plan for your hip pain.



Our goal is to quickly return you to the activities that you value most with the shortest possible hospital stay and recovery time.

About the VERILAST Hip Replacement



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If hip replacement is in your future, you've come to the right place to learn about a truly significant advancement in joint replacement materials, VERILAST Hip Technology.

It's important to remember that not every hip implant is the same. VERILAST Hip Technology is the one technology that directly addresses two of the most commonly cited concerns associated with hip replacement implants.



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Lab tested for wear 3 times longer than the industry standard

Patient Success Stories



About Dr. Parminder Kang

A native Las Vegas, Parminder S. Kang, M.D. is happy to be back in his hometown. He graduated from the Academy of Math Science and Applied Technology at Las Vegas' Clark High School. He then graduated with honors in Physics from the University of California at Berkeley in 2001. A knee injury in college led him to pursue a career in medicine. Dr. Kang received his medical degree from the State University of New York College of Medicine where he graduated at the top of his class (AOA) in 2005. He then completed his orthopedic residency at the Baylor College of Medicine in the world-renowned Texas Medical Center in 2010. During his residency he received the Journal of Orthopaedic Trauma Best Teaching Resident award. After completing his general orthopedic training, he obtained a prestigious fellowship for an additional year of training in Adult Reconstruction and Hip Preservation at Washington University in St. Louis, Missouri in 2011.



PARMINDER KANG, M.D.



Dr. Kang is a member of the American Academy of Orthopedic Surgeons, the American Association of Hip and Knee Surgeons and the Arthroscopy Association of North America. His practice focuses on providing advanced conservative and surgical care to patients with hip and knee problems, particularly with injuries to the cartilage and/or labrum. He uses the newest techniques and cutting edge technologies to treat his patients.

His subspecialty qualifications include:

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- Partial hip arthroplasty
- Hip resurfacing
- Hip arthroscopy
- Hip preservation procedures
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What is Lumbar Stenosis

The lumbar spine (lower back) consists of the vertebrae in the lower part of the spine, between the ribs and the pelvis. Lumbar spinal stenosis is a narrowing of the spinal canal, narrowing of the nerve root exit forays (foramens) or the bony ring. When it may affect your pain, numbness, and/or weakness. It is more often a degenerative condition that affects people who are typically age 50 and older.

Narrowing of the spinal canal usually occurs slowly, over many years, or decades. The disks become less springy with age, resulting in loss of disk height, and may cause bulging of the hardened disk into the spinal canal. These causes may also occur and separately may be factors. Age-related changes in the narrowing of the spinal canal may also occur and separately may be factors. Age-related changes in the narrowing of the spinal canal may also occur and separately may be factors. Age-related changes in the narrowing of the spinal canal may also occur and separately may be factors.

Such symptoms may include:

- Pain, numbness, or weakness in the legs, buttocks or feet
- Cramping in the calves with walking, running, or standing for long periods of time
- Pain radiating into one or both thighs and legs, similar to the leg term Sciatica
- In some cases, loss of motor functioning of the legs, loss of normal bowel or bladder function
- Difficulty walking, leaning forward, sitting or lying down

Degenerative spondylolisthesis and degenerative scoliosis (curvature of the spine) are two conditions that may be associated with lumbar spinal stenosis. Degenerative spondylolisthesis is a slippage of one vertebra over another, caused by a fracture of the bony part. Most commonly, it involves the L4 vertebra sliding over the L5 vertebra. It is usually treated with the same non-surgical ("conservative") pain relief methods as lumbar spinal stenosis.

Degenerative scoliosis occurs most frequently in the lower back and more frequently affects people aged 60 and older. It is a non-symmetrical and progressive curvature of the spine, which is often associated with pain. The curvature of the spine in this form of scoliosis is often relatively minor. Surgery may be indicated when non-surgical measures fail to improve pain associated with the condition.

How Does Coflex Non-Fusion Surgical Solution Provide Relief From Lumbar Stenosis?

Coflex is implanted during a minimally-invasive surgery that does NOT involve fusion. In many cases, patients are up and walking the same day of surgery, and with real relief from pain.

As an FDA-cleared alternative to fusion surgery, Coflex is a minimally-invasive surgical solution for patients who experience lumbar spinal stenosis.

- Less pain surgery
- Less blood loss
- A better time of stay
- A shorter post-operative pain relief

This is the shape of real relief.

The **coflex**® device is a small titanium implant that can help relieve the pain caused by spinal stenosis.

It's FDA approved and has 5 years of clinical evidence to support that it's a proven alternative to spinal fusion.

If you have lumbar spinal stenosis, you can finally stand up to it with a **safe and effective treatment solution that's proven to work.**

"As soon as the anesthesia wore off, I was able to walk!"

— Ed D., Birmingham, AL
Coflex® patient

coflex®
The Lumbar Solution

PATIENT TESTIMONIAL

Ed D., Birmingham, AL
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Ed D., Birmingham, AL
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Jeffrey M. Epstein, MD
Certified Neurosurgeon & Pain Management Specialist

As a practicing Neurosurgeon and Pain Management Specialist, Dr. Jeffrey M. Epstein has over 25 years of experience in the treatment of spine disorders and chronic pain. He is currently one of the top 1% of spine surgeons in the United States and is recognized as a national leader in the field of minimally invasive spine surgery. Dr. Epstein has the knowledge and skill to help you find relief from your back and neck pain.

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BACK & SPINE OVERVIEW

Anatomy of the Spine

Your spinal column consists of 26 bones, called vertebrae, that are divided into four sections: cervical spine (7 vertebrae), thoracic spine (12 vertebrae), lumbar spine (5 vertebrae), and sacrum (fusion of 5 sacral vertebrae), that extend down to your pelvis. Between the vertebrae are discs of soft tissue. The vertebrae join together like links in a chain, providing support for your head and body, while the discs act as shock absorbers, or "shock absorbers." In addition to providing support, the spine encloses and protects a cylinder of nerve tissue called the spinal cord. The spinal cord is surrounded by a part of the vertebrae, creating a channel called the spinal canal.

Your spinal cord and nerves send information from your brain to your arms and legs, and vice versa. Spinal nerves and the spinal cord are responsible for conscious movements such as holding objects, walking, lifting, sitting, running, and jumping.



Major Causes of Back Pain

Lower back pain is among the most common reasons for patients to visit a doctor, especially a spine specialist. In most cases, lower back pain comes from common muscle strain, or a "pulled muscle." In these instances, patients may experience a sharp, pulling pain that goes across the lower back, as well as soreness, tightness, and cramps. Fortunately, most patients with a muscle strain get better with rest, ice, and anti-inflammatory medications, and physical therapy.

Sometimes, however, back pain is a sign that something more serious is going on with the bones, discs, and nerves in the spine.

- Lumbar disc herniation:** Also known as a "slipped disc," may cause back pain and pain that radiates down the leg with numbness, tingling, cramping, and burning.
- Lumbar degenerative disc disease:** The wearing down of the "shock absorbers" (intervertebral discs) between the bones in the lower spine, which may lead to severe pain in the lower back and buttocks.
- Arthritis:** When inflammation occurs in the joints where the vertebrae meet and move in the lower back, it can cause significant lower back pain that often leads to difficulty walking long distances.
- Spinal stenosis:** A degenerative spinal disease that causes the narrowing of the spinal canal. This narrowing causes pressure on the nerves and can cause pain or other symptoms like muscle weakness or numbness.
- Spinal instability:** Abnormal or too much motion that occurs between two bones in the spine that may cause severe back pain.
- Spondylolisthesis:** A condition in which one vertebra slips forward in relation to the vertebra below it.

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Is Chronic Pain Interfering With Your Life?

If you're suffering from chronic back and neck pain, a skilled neurosurgeon might be able to provide you with the relief you need.

Work with a certified neurosurgeon with decades of experience in pain management for a treatment plan that is right for you.

Have past treatments provided limited or no relief?

Don't give up hope. An experienced neurosurgeon and pain management specialist may be able to correct the problem.

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JEFFREY M. EPSTEIN MD

TREATMENTS CONDITIONS CREDENTIALS COFLEX SURGERY CONTACT US 312.800.0500

SKILLED NEUROLOGICAL DIAGNOSTIC EXPERT

Jeffrey M. Epstein, MD
Certified Neurosurgeon & Pain Management Specialist

As a practicing Neurosurgeon and Pain Management Specialist for more than 30 years, I have significant experience in the treatment of spine disorders, and have performed over 1,000 minimally-invasive procedures. In the treatment of the spine, both surgically and medically. With 30 years of experience in pain management, I possess the knowledge and skills to help you benefit from a particular treatment, from both a surgical and non-surgical perspective.

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 Intervertebral Stabilization®

SPINAL STENOSIS

Spinal stenosis is defined as a narrowing of the spinal canal. This narrowing can occur from thickening of ligaments (tissue that connects two bones), bulging of discs, or overgrowth of bone. The spinal sac and nerve fibers that exit the spinal canal (nerves roots) can become crowded and pinched. This may lead to pain, numbness, tingling, and/or weakness in the back and legs. This pain is especially noted while walking.

Healthy Spinal Canal



Narrowed Spinal Canal



The most common causes are:

- Lumbar disc herniation
 --- A "slipped disc"
- Arthritis
 --- Inflammation in the joints where two vertebrae meet and move
- Spinal stenosis
 --- When one vertebra slips forward in front of the other

Most patients who experience back and leg symptoms from spinal stenosis will never need a surgery. The most common non-surgical treatments include:

- Patient education
- Rest
- Weight loss
- Medication
- Chiropractic care
- Massage
- Acupuncture
- Physical therapy
- Injections

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Is Chronic Pain Interfering With Your Life?

If you're suffering from chronic back and neck pain, a skilled neurosurgeon might be able to provide you with the relief you need.

Meet with a certified neurosurgeon with decades of experience in pain management for a treatment plan that is right for you.

Have past treatments provided limited or no relief?

Don't give up hope. An experienced neurosurgeon and pain management specialist may be able to correct the problem.

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Spinal Stenosis

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Anatomy of the Spine

Your spinal column consists of 26 bones, called vertebrae, that are divided into four sections: cervical spine (7 vertebrae), thoracic spine (12 vertebrae), lumbar spine (5 vertebrae), and sacrum (fusion of 5 sacral vertebrae), that extend down to your pelvis. Between the vertebrae are discs of soft tissue. The vertebrae join together like links in a chain, providing support for your head and body, while the discs act as stabilizing cushions, or "shock absorbers." In addition to providing support, the spine encloses and protects a cylinder of nerve tissues called the spinal cord. The spinal cord is surrounded by a part of the vertebrae, creating a channel called the spinal canal.

Your spinal cord and nerves send information from your brain to your arms and legs, and vice versa. Spinal nerves and the spinal cord are responsible for common movements such as holding objects, walking, lifting, sitting, running, and jumping.

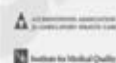


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Pro Tips

When lifting items, lift with your knees, not your back. Always use proper form to lift. Avoid heavy lifting. Avoid twisting your body. Avoid sitting for long periods.

Major Causes of Back Pain

Lower back pain is among the most common reasons for patients to visit a doctor, especially a spine specialist. In most cases, lower back pain comes from common muscle strain, or a "pulled muscle." In these instances, patients may experience a sharp, pulling pain that goes across the lower back, as well as soreness, tightness, and cramps. Fortunately, most patients with a muscle strain get better with rest, ice, anti-inflammatory medications, and physical therapy.

Sometimes, however, back pain is a sign that something more serious is going on with the bones, discs, and nerves in the spine.



Lumbar disc herniation: Also known as a "slipped disc." May cause back pain and pain that radiates down the leg with numbness, tingling, weakness, and burning.

Lumbar degenerative disc disease: The wearing down of the "shock absorbers" (intervertebral discs) between the bones in the lower spine, which may lead to severe pain in the lower back and buttocks.

Arthritis: When inflammation occurs in the joints where two vertebrae meet and move in the lower back, it can cause significant lower back pain that often leads to difficulty walking long distances.

Spinal stenosis: A degenerative spinal disease that causes the narrowing of the spinal canal, increasing pressure on the nerves and causing pain or other symptoms like muscle weakness or numbness.

Spinal instability: Abnormal or too much motion that occurs between two bones in the spine that may cause severe back pain.

Spondylolisthesis: A condition in which one vertebra slips forward in relation to the vertebra below it.

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**PREPARE TO GET
YOUR LIFE BACK**

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What is Arthritis of the Lumbar Spine?

Lumbar arthritis is a condition of arthritis that affects the spine. The most common cause of lumbar arthritis is osteoarthritis. Also known as spinal arthritis, it is the result of age-related changes that occur in the discs and inflammation in the same parts of the lumbar spine.

The condition develops gradually and is often associated with spinal degeneration or stress on the spine.

Lumbar arthritis is very common, affecting roughly 40 to 60 percent of people in the United States, according to a 2003 report in *Current Rheumatology Reports*.

While OA is thought to be a normal part of aging, the pain and stiffness of lumbar arthritis can limit a person's ability to do even the simplest tasks, accordingly, more than just requires finding and treating.

How Does Coflex Non-Fusion Surgical Solution Provide Relief From Lumbar Stenosis?

Coflex is implanted during a minimally invasive surgery that does NOT involve spinal fusion. In many cases, patients are up and walking the same day of surgery, and with real relief from pain!

In an FDA clinical study comparing Coflex to fusion surgery, patients who received Coflex experienced:

- shorter surgery
- less blood loss
- shorter hospital stay
- significant and lasting pain relief

This is the shape of real relief.

The **coflex®** device is a small titanium implant that can help relieve the pain caused by spinal stenosis.

It's FDA approved and has 5 years of clinical evidence to support that it's a proven alternative to spinal fusion.

If you have lumbar spinal stenosis, you can finally stand up to it with a **safe and effective treatment solution that's proven to work.**

"As soon as the anesthesia wore off," I was able to walk!

- Ed D., Birmingham, AL
coflex® patient

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RESTORE YOUR LIFE

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1. Post, Zachary D., MD, Orozco, Fabio, MD, Diaz-Ledezma, Claudio, MD, Hozack, William J., MD, Ong, Alvin, MD 20140. Journal of the American Academy of Orthopaedic Surgeons.
Additional information available at www.fda.gov/oc/yourgo.com.

There are potential risks with hip and knee joint replacement surgery such as loosening, fracture, dislocation, wear and infection that may result in the need for additional surgery. Do not perform high impact activities such as running and jumping unless your surgeon tells you the bone has healed and these activities are acceptable. Early device failure, breakage or loosening may occur if you do not follow your surgeon's limitations on activity level. Early failure can happen if you do not guard your hip and knee joint from overloading due to activity level, failure to control body weight or accidents such as falls. Knee and hip replacement surgery is intended to relieve joint pain and improve joint functions. Talk to your doctor to determine what treatment may be best for you.

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The NAVIO Surgical System is a CT-free robotics-assisted platform that delivers accurate and precise results¹. Compared to total knee replacement, partial knee replacement has been shown to offer patients less pain², smaller incisions³, quicker rehabilitation² and a more normal feeling knee².

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1. Lerner J, Smith J, et al. High-Degree of Accuracy of a Novel Image-Free Handheld Robot for Unicompartmental Knee Arthroplasty in a Cadaveric Study. Clin Orthop Rel Res 2014 Jul 8. Epub 2014 Jul 8.

2. Hall et al., "Unicompartmental Knee Arthroplasty (UKR) vs. Total Knee Arthroplasty (TKA): An Overview With Nursing Implications," Orthopaedic Nursing, 2004, 23(2): 163-171.

3. Reppert, JR, et al., "Minimally Invasive Surgical Technique for Unicompartmental Knee Arthroplasty," J South Orthopaedic Association, 1999 Spring, 8(1): 20-7.

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1. Jansen L, Smith J, et al., High Degree of Accuracy of a Novel Image-Free Handheld Robot for Unicompartmental Knee Arthroplasty in a Cadaveric Study. Clin Orthop Rel Res 2014 Jul 8. Epub 2014 Jul 8.

2. Hall et al., "Unicompartmental Knee Arthroplasty (UKR) (UKR): An Overview 2016: Nursing implications". Orthopaedic Nursing, 2016, 22(2): 163-171.

3. Rajasekharan, et al., "Minimally invasive surgical technique for unicompartmental knee arthroplasty." J South Orthopaedic Association, 1999 Spring, 10(1): 25-31.

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2. Hall et al., "Unicompartmental Knee Arthroplasty Utilizes Less Knee: An Overview With Nursing Implications," Orthopaedic Nursing, 2004, 18(2): 143-151.
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WHAT TO EXPECT FROM YOUR **NAVIO® ROBOTICS-ASSISTED** PARTIAL KNEE REPLACEMENT

The NAVIO Surgical System can help your surgeon get you **back in action** with accurate and precise partial knee replacement.

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Patient Guide

Partial knee replacement

Partial knee replacement is a potential alternative to total knee replacement for patients with early to mid-stage osteoarthritis that is generally limited to one compartment of the knee. The procedure removes and replaces the damaged portion of the knee with an implant, sparing the cruciate ligaments that are vital to knee stability, and preserving healthy bone and cartilage. In contrast to total knee replacement, partial knee replacement offers patients:

- Less pain¹
- A more normal feeling knee¹
- Smaller incisions²
- Quicker rehabilitation¹



Partial knee replacement with traditional techniques

Using traditional surgical methods, cutting blocks or guides are placed on the thigh bone (femur) and shin bone (tibia) to help direct a surgical saw in removing the diseased bone and cartilage. This method has been considered technically challenging, as accurately placing these blocks can be difficult. In recent years, advanced surgical techniques using robotic assistance have been developed to provide a higher level of accuracy and precision.³



Shin bone (tibia) guide



Thigh bone (femur) guide



NAVIO[®] robotics-assisted technique

Partial knee replacement with NAVIO® robotic assistance

The NAVIO Surgical System provides robotic assistance through an advanced computer program that relays precise information about your knee to a robotics-assisted handpiece used by the surgeon during the procedure. By collecting patient-specific information, the surgeon is able to establish spacial boundaries for the robotics-assisted handpiece to assist in removing the damaged surfaces of your knee, balance your joint, and position the implant with accuracy and precision.³



NAVIO Surgical System

Computer assistance

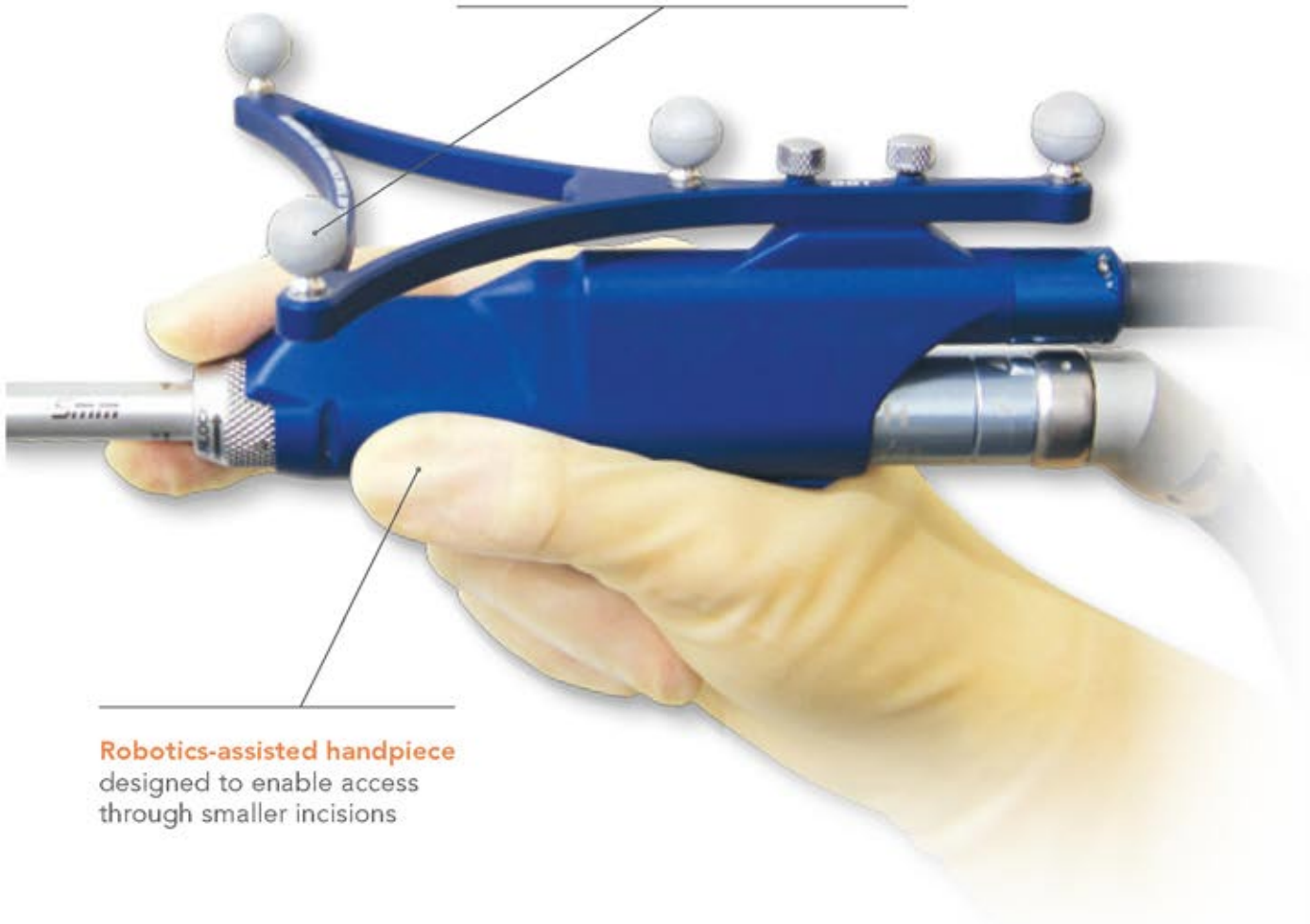
designed to ensure consistent and accurate results





Advanced planning software allows the surgeon to tailor the procedure to each patient.

Advanced instrumentation
designed to enforce bone resurfacing
within the surgeon-defined plan



Robotics-assisted handpiece
designed to enable access
through smaller incisions

Preparation

Follow your physician's instructions on how to prepare leading up to surgery. Some surgeons may request thorough medical and dental evaluations. Let your doctor know if you are taking any medications.

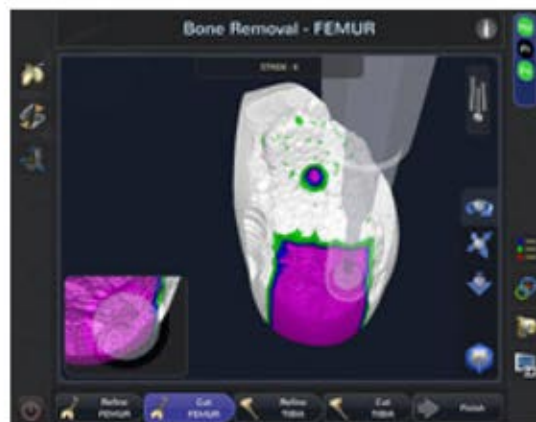
Consider how the surgery and recovery process will affect your daily activities. Move items and furniture in your home so they are easier to access while your mobility is limited. Remove clutter and obstacles that could be tripping hazards. Have a plan; preparing meals ahead of time and arranging visitors to help with everyday chores will make your recovery smoother.



What to expect in surgery

The surgeon will typically make a 4" - 6" incision along the front of your knee, just to the side of the knee cap, to access the damaged area and inspect the knee. Special trackers are secured to both the thigh bone (femur) and shin bone (tibia) with four, 4mm pins that are placed through small incisions in the skin. These trackers are crucial to the precision of the system as they provide a constant reference point for the computer navigation as the surgeon collects your anatomical data and prepares the joint surfaces.

The anatomical data collected is used to generate a 3-dimensional virtual model of your knee, which the surgeon uses to precisely plan your partial knee replacement. With the NAVIO® system, proper implant placement and knee balance, important to a successful surgery, are first achieved virtually.



When the surgical plan is set, the NAVIO system's robotics-assisted handpiece is used by the surgeon to accurately resurface the joint as he or she guides the instrument over the damaged femoral and tibial bone. After the damaged bone and cartilage have been removed and the implants are in place, the incision is thoroughly cleaned and closed to complete the procedure.

Postoperative

Immediately after surgery you will be transferred to the recovery room. In addition to the incision along your knee, there will be two small incisions on both your thigh and lower leg where the tracker pins were placed. Ice packs and analgesics may be used to reduce swelling and manage pain.

Each patient's postoperative care will vary, as severity of injury, surgeon care and other factors can vary. Early movement of your operative knee with assistance is encouraged. Patients are typically allowed to walk with the assistance of a cane, crutches or walker shortly after surgery. A physical therapist will prescribe exercises to help restore knee strength and function, and increase range of motion. It is common for your knee to experience swelling, stiffness and tightness. Follow up visits may be scheduled to check up on your condition and progress as you recover.

Your physician will instruct you when it's appropriate to return to various activities. How quickly you recover depends on factors such as knee pain, flexibility, strength, and balance.

Complications

As with any surgical procedure, there are risks involved with partial knee replacement, which may include, but are not limited to:

- **Blood clots.** Your physician may prescribe medication to help prevent blood clots.
- **Infection.** Antibiotics may be given before the surgery and continued afterward to help prevent infection.
- **Injury to nerves or vessels.** While rare, nerve and blood vessel damage may occur during the procedure⁴
- **Other risks.** Individual patient risks should be discussed with your surgeon.



Disclaimer

The NAVIO® system is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint and morbidly obese patients should not undergo a NAVIO procedure. Knee replacement surgery is intended to relieve knee pain and improve knee functions. However, implants may not produce the same feel or function as your original knee. There are potential risks with knee replacement surgery such as loosening, fracture, dislocation, wear and infection that may result in the need for additional surgery. Longevity of implants depends on many factors, such as types of activities and weight. This information, including postoperative care, is provided for educational purposes only. Smith & Nephew does not provide medical advice. In no event shall Smith & Nephew be liable for any damages whatsoever arising out of the use of or inability to use the expressed views. Consult your physician for details to determine if a NAVIO robotics assisted procedure is right for you.

The NAVIO system is intended to assist the surgeon in providing software-defined spatial boundaries for orientation and reference information to anatomical structures during orthopedic procedures. The NAVIO system is indicated for use in surgical knee procedures, in which the use of stereotactic surgery may be appropriate, and where reference to rigid anatomical bony structures can be determined. These procedures include unicondylar knee replacement (UKR), patellofemoral arthroplasty (PFA), and total knee arthroplasty (TKA). The NAVIO system is indicated for use with cemented implants only.

1 Hall et al., "Unicompartmental Knee Arthroplasty (Alias Uni-Knee): An Overview With Nursing Implications," *Orthopaedic Nursing*, 2004; 23(3): 163-171.

2 Repicci, JA, et al., "Minimally invasive surgical technique for unicondylar knee arthroplasty," *J South Orthopedic Association*, 1999 Spring; 8(1): 20-7.

3 Lonner, et al. "High Degree of Accuracy of a Novel Image-free Handheld Robot for Unicondylar Knee Arthroplasty in a Cadaveric Study." *Clinical Orthopaedics and Related Research*. Advanced online publication. DOI 10.1007/s11999-014-3764-x5 American Association of Orthopaedic Surgeons (2014). AAOS.org.

4 American Association of Orthopaedic Surgeons (2014). AAOS.org

WHAT YOU NEED TO KNOW ABOUT

Total knee replacement surgery with the NAVIO[◇] Surgical System

Michael L. Lykins, DO



More than 600,000 total knee replacement procedures are performed each year in the U.S. and more than 90% of these patients experience a dramatic relief in knee pain and are better able to perform common activities.¹ The NAVIO[◇] Surgical System delivers robotics-assisted tools designed to help tailor your total knee replacement surgery to the unique shape and motion of your knee.

Robotics-assisted knee replacement planning with the NAVIO[◇] System

The total knee replacement procedure starts with your unique anatomy in mind. By the time your procedure is complete, the damaged bones and cartilage within your knee joint will be removed and replaced with new implant components. Each of these implant components must fit precisely and be aligned to your natural anatomy if they are to provide you with the best outcome possible. The challenge of aligning your implant and preparing your bones to accept it can be complex, invasive and time consuming because no two knee joints are exactly the same.

The NAVIO[◇] Surgical System is designed to help your surgeon not only plan your surgery based on your unique anatomy, but also position your total knee implant using a combination of computer and robotic assistance. The NAVIO[◇] procedure starts with an advanced computer system that gathers precise anatomic and alignment information about your joint that your surgeon will use to create your specific surgical plan.

This extra layer of data collection and planning is designed to help ensure your knee procedure is performed exactly as your surgeon intends and that your implant is positioned as accurately as possible for the best long-term outcome.

Advanced instrumentation designed to enforce bone resurfacing within the surgeon defined plan

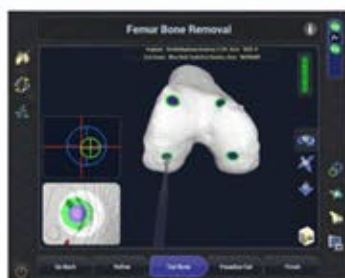
Computer assistance designed to ensure consistent and accurate results

Robotics-assisted handpiece designed to enable access through smaller incisions

CT-Free

Other robotic-assisted knee replacement systems use computerized tomography, or CT, scans to help a surgeon visualize a patient's knee anatomy. While CT scans are effective at showing the layers of knee anatomy, they can expose the patient to potentially harmful radiation. In fact, a single CT scan is equivalent to the radiation exposure received in 48 chest X-rays.²

The NAVIO® system eliminates the need for CT scans by using an advanced computer program to collect anatomic and alignment information about your knee. Once captured, this information is used to build a precise, computer-rendered 3D model of your knee that your surgeon will use to plan your surgery.



NAVIO® Brings Robotics-assisted Precision to Total Knee Surgery

After removing the cutting guides, the prosthetic knee implants are implanted and your knee is checked to make sure it moves and is balanced correctly. It is important to understand that the NAVIO® system doesn't replace your surgeon. The procedure remains in the skilled hands of your surgeon, with the NAVIO® system providing extra layers of planning, accuracy and precision.



Total Knee Replacement Surgery without rods

Another method that can be used to determine the anatomic alignment of your new implants uses long, metal devices called intramedullary (IM) rods that are drilled into the central canal of the bone to show the alignment of the knee in relation to the hip. These rods are then used to attach the cutting guides necessary to guide the surgeon's saw blade as it shapes the bones to accept the new implants.

Because the NAVIO® system has already gathered the anatomic alignment information about your knee, it eliminates the need for IM rods. Instead, your surgeon will use the system's handheld robotics-assisted tool (the NAVIO® handpiece) to accurately position the NAVIO-specific cut guides which are held in place with a few small pins instead of the IM rod. This process leaves the central canal of your bone untouched. Implant alignment is a crucial factor in determining how long the implant will last.^{3,4}



Michael L. Lykins, DO
Orthopaedic Surgeon

Dr. Michael L. Lykins is a board-certified orthopaedic surgeon with expertise in total joint replacement, knee, and shoulder arthroscopy, hand surgery, and has a special interest in sports medicine.

Dr. Lykins graduated from medical school in 1989 from Ohio University College of Medicine. He completed his internship and residency in orthopaedics at Doctor's Hospital of Stark County, where he was the chief surgery resident. While completing his studies, Dr. Lykins received several scholarships, honors, and awards of excellence.

Dr. Lykins volunteers in his community. He has been the Washington Massillon Tigers High School team physician for the past 19 years. He enjoys spending time with his family and is a recreational avid golfer. He is a faithful fan of all Cleveland sports and a die-hard Cleveland Browns fan.

Important safety notes

Individual results of joint replacement vary. Implants are intended to relieve knee pain and improve function, but may not produce the same feel or function as your original knee. There are potential risks with knee replacement surgery such as loosening, wear and infection that may result in the need for additional surgery. Patients should not perform high impact activities such as running and jumping unless their surgeon tells them that the bone has healed and these activities are acceptable. Early device failure, breakage or loosening may occur if a surgeon's limitations on activity level are not followed.

Disclaimer

Individual results may vary. There are risks associated with any surgical procedure including NAVIO-enabled Knee Replacement. NAVIO® is not for everyone. Children, pregnant women, patients who have mental or neuromuscular disorders that do not allow control of the knee joint, and morbidly obese patients should not undergo a NAVIO procedure. Consult your physician for details to determine if NAVIO® is right for you.

American Academy of Orthopaedic Surgeon website, accessed March 7, 2017 //orthoinfo.aaos.org/topic.cfm?topic=A00389 • Ponzio DY, Lanner JH, Preoperative Mapping in Unicompartmental Knee Arthroplasty Using Computed Tomography Scans Is Associated with Radiation Exposure a... J Arthroplasty (2014) • Collier, Matthew, et al., "Patient, Implant, and Alignment Factors Associated With Revision of Medial Compartment Unicompartmental Arthroplasty," Jour of Arthro, Vol 21 No 6, Suppl. 2, 2006. • Hernigou, Ph, Deschamps, G., "Alignment Influences Wear in the Knee after Medial Unicompartmental Arthroplasty," Clin Orthop Relat Res., Volume 423, June 2004, pp 161-165

All information provided on this website is for information purposes only. Every patient's case is unique and each patient should follow his or her doctor's specific instructions. Please discuss nutrition, medication and treatment options with your doctor to make sure you are getting the proper care for your particular situation. If you are seeking this information in an emergency situation, please call 911 and seek emergency help.

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Article ID: sn-navio-total-knee-replacement-surgery • WordPress Shortcode: {sncontent article="sn-navio-total-knee-replacement-surgery"}

• Joomla Code: {voxd}sn-navio-total-knee-replacement-surgery{/voxd}

*Trademark of smith&nephew



Product Roadmap Surgeon Handout

IMPROVE YOUR GROWTH WITH HMG MEDIA GROUP



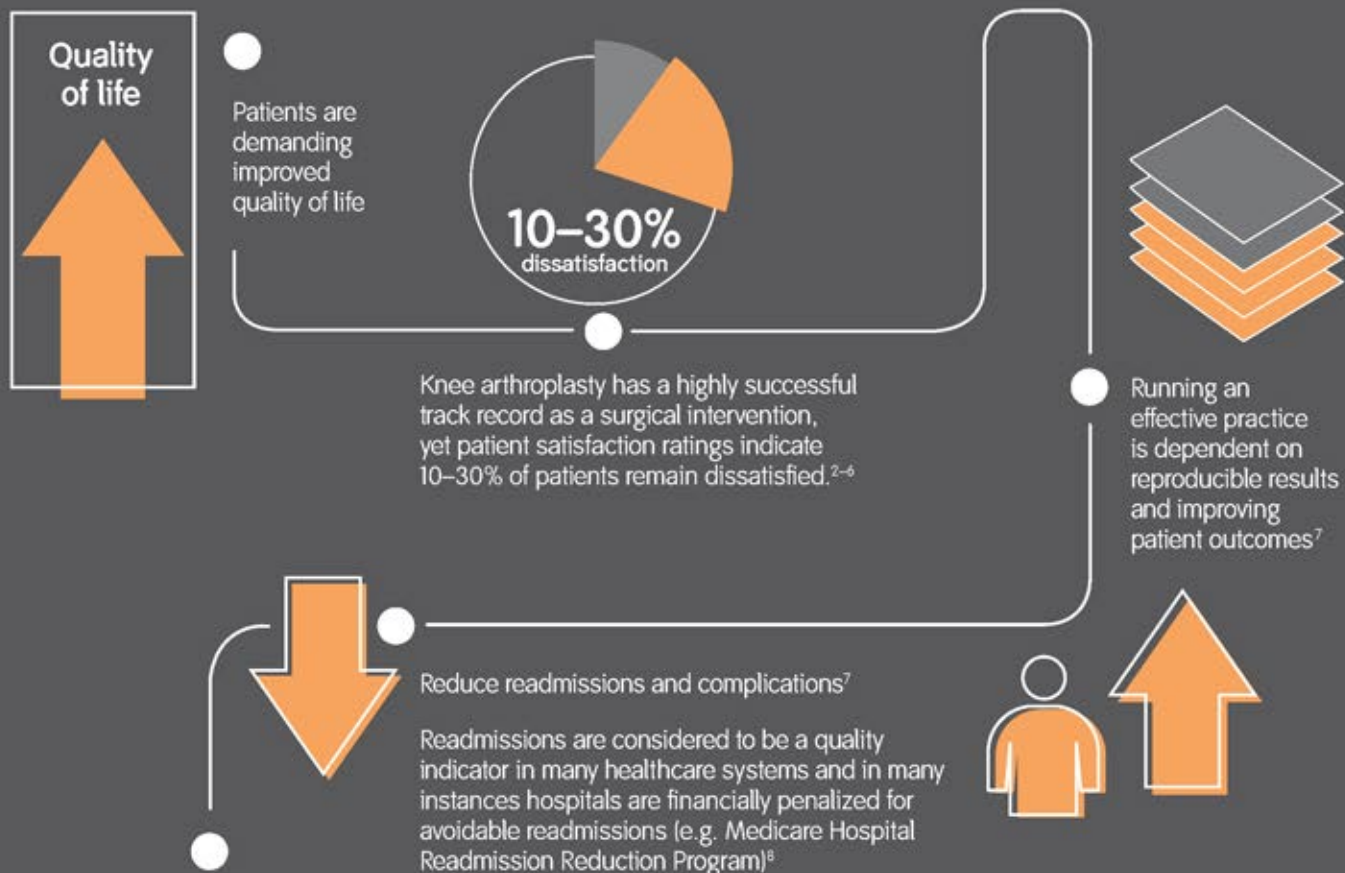
The power of robotics in your skilled hands

The NAVIO Surgical System provides accuracy, flexibility and confidence utilizing real-time imaging (without the need for preoperative CT), hand-held robotics, a portable cart, and multiple partial and total knee implant options in an economically sound¹ platform.

 **smith&nephew**
NAVIO[®]
Surgical System

Supporting healthcare professionals

The need for improvements in healthcare



Why NAVIO®?

The NAVIO Surgical System is designed to aid surgeons in component positioning, ligament balancing and bone preparation – key factors that can drive implant survivorship.^{9,10}

The NAVIO Surgical System does this without requiring a CT scan and allows surgeons, staff and patients the experience of a patient-specific plan without the extra steps associated with other image-based robotic-assisted technologies that can increase cost or delay surgery¹.



Accuracy



Flexibility



Confidence

- ✓ Real-time imaging
- ✓ Handheld robotics
- ✓ Portable cart

- ✓ Multiple implant options
- ✓ Economically sound¹

Next generation of robotics

How it works



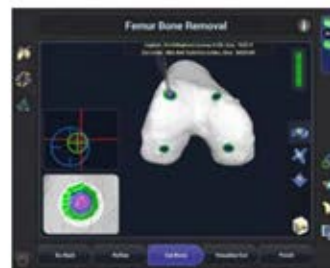
Image-free registration

- A 3D model of the patient's cartilage and bone is captured through direct surface mapping, eliminating the need for a CT scan



Patient specific planning

- 3D implant planning provides confidence in sizing, placement, and resection depth
- For total and unicompartmental knees, patient-specific planning allows the surgeon to place implant components virtually and predict postoperative joint laxity at the time of surgery without being locked into a plan before verifying the severity of the disease
- Soft tissue balancing can be viewed throughout the full range of motion



Robotics-assisted bone preparation

- Patented NAVIO® handheld burring technology removes only the bone determined by the surgeon plan
- Bone removal is seen on the NAVIO screen in real-time allowing the surgeon to continually assess patient anatomy against the plan



Confirmation

- For UKA and TKA, confirm postoperative joint laxity versus planned
- Varus/valgus balance is assessed to confirm the achieved long-leg alignment
- Flexibility to perform and evaluate ligament releases



Accuracy



Flexibility



Confidence

Real-time imaging

Eliminates time and costs associated with preoperative CT imaging

- Simplifies the surgical process
- Reduces radiation exposure for patients
 - The mean dose associated with the preoperative CT for robotic-assisted knee arthroplasty is equivalent to 48 chest radiographs¹¹
 - Furthermore, one or more additional CT scans were obtained in 25% of patients, according to one study of 211 patients¹¹
- Enables office staff to focus on patient care by eliminating the need to spend time managing payer approvals for preoperative imaging
- Saves the healthcare system incremental cost of CT

Image-based robotics-assisted workflow



NAVIO° image-free robotics-assisted workflow



Provides the confidence of handheld robotics

The NAVIO® handpiece accurately removes bone identified by the surgeon approved, patient-specific plan¹²

The NAVIO handpiece offers a unique and flexible approach to knee arthroplasty

- Places robotics-assisted surgery in your hands
- Allows flexibility of multiple bone removal options [Bur | Saw | Combo]
- Provides accurate burring for bulk bone removal or fine tune adjustments



Accuracy



Flexibility



Confidence



- 1 Handpiece
- 2 Tracking array
- 3 Infrared reflective discs
- 4 High speed internal drill
- 5 Interchangeable guard
- 6 Cutting bur



Flexibility

Portable cart with a small footprint

- Easily move the cart from OR to OR or facility to facility, providing flexibility and efficiencies
- Features simple calibration and a footprint designed for use in the surgery center or hospital



Flexibility



Confidence

Implant options

Provides the flexibility of multiple implant options for partial and total knees to accommodate surgeon and patient needs



JOURNEY II BCS



JOURNEY II CR



JOURNEY II XR*

Supports the JOURNEY® II Total Knee which is designed for normal function, smoother recovery and improved patient satisfaction



JOURNEY UNI



JOURNEY PFJ



JOURNEY II CR

Components made with OXINIUM® alloy, an advanced material shown to be 4,900 times more resistant to abrasion¹⁸, more than twice as hard¹⁹, and has a coefficient of friction that is up to half that of CoCr²⁰



STRIDE

Supports STRIDE UNI, designed to be optimized for robotics



ZUK UNI



GENESIS II PS/CR



LEGION
PRIMARY BCS/CR

Offers a selection of implant options with a strong clinical heritage including ZUK UNI¹³, GENESIS® II¹⁴ and LEGION® Primary¹⁵⁻¹⁷

*NAVIO with JOURNEY II XR not available for commercial use until 2018



Confidence

Economically sound¹

A cost effective¹ approach to building a cutting-edge surgical practice, designed to deliver outcomes predictable to the plan

- Distinguishing technology can draw patient interest and grow case volume²¹⁻²²
- Potential to increase patient volume by offering advanced surgical techniques and increasing access to unicompartmental and patellofemoral procedures
- Episode of care costs are decreased with the elimination of a preoperative CT





HMG Project Roadmap To Success - Roll-Out Examples

"We develop a customized approach to maximize your business"



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Execute the Plan for Success



Prepared For: _____ 2025/2026 Program Budget: _____

Prepared By: _____ Co-Managing Budget: _____

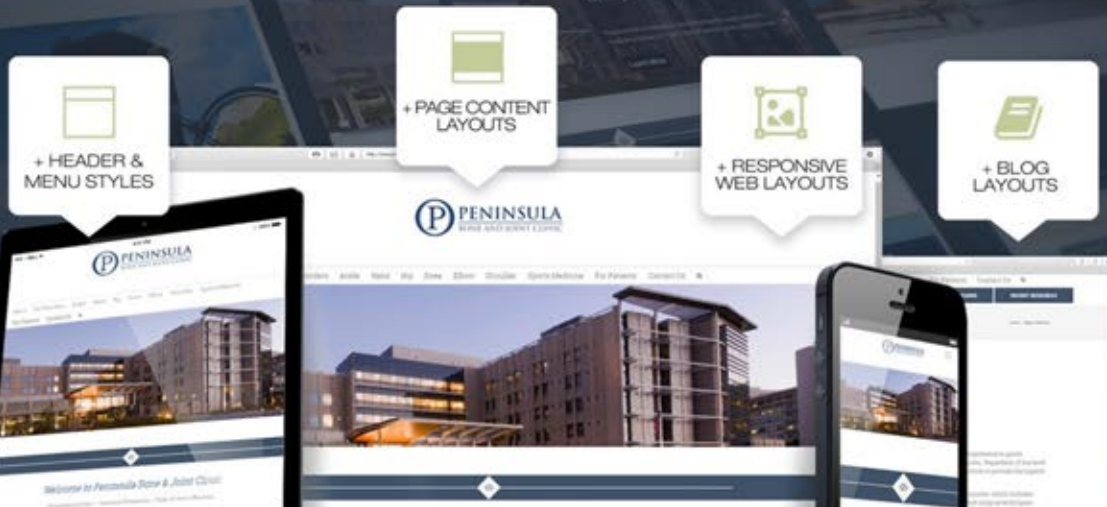
Issued Date: _____ For the Marketing Department Budget



AUDIENCE	FEAR	CHANCE	BUDGET SIZE	BUDGET SOURCE (Agency, in-house, or both)	TRAILER DESCRIPTION	IMPACT/COMMENTS
Oil Refiners	<ul style="list-style-type: none"> Oil theft on-site Oil theft in transit on highways Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Internal Financial Community	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Refining	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Community Outreach	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Local and Global Community Outreach	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Public Relations and Media Outreach	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.
Advertising	<ul style="list-style-type: none"> Oil theft from water in offshore fields of the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side Oil theft from water in offshore fields on the coast side 				Video 10 days of work Headline	Understand the specific needs and interests of the audience and create a video that is relevant to them.

WEBSITE DESIGN & DEVELOPMENT

The Power A New Website



HMG website packages provide you with the ability to build virtually any design style. Our professionally designed sites are built entirely with your options and requested content.



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Microsite

- Seperate Dedicate Content Delivery Microsite optimized to be coded conducive to current Search Engine Algorithms
- This is a strategy often used because it has proven to be highly effective.
- Robotic-Assisted Materials can be downloaded
- It allows an easy space for potential patients to learn about options for care i.e. conservative, partial and total knee replacement etc.
- Video's can be uploaded
- Patient testimonials
- Implant details
- Anatomical descriptions and approaches as well as terminology
- Surgeon Locator
- Location to sign up for Seminars/Events and patient contacts are gathered and routed for follow up.

NAVIO

Marketing Launch Overview

Brand program materials



Add robotics content to website



Internal NAVIO event



Local press release



Establish a series of patient lectures



Engage local media



Identify other unique opportunities in market



Identify and target physician referrals



First 30 Days

- **Design patient education materials**
 - Brochures to be at all events and PCP initiatives
 - Patient Guides
- **Develop signage/posters/banners for facility and surgeon clinics**
 - Educating on Robotic Assistance and the benefits of it.
 - Promoting the benefits and availability of this new technology in treating patients in the Avera Health system.
 - Flyers promoting the events will be strategically available at multiple sites of patient access.
- **Introduce technology on websites**
 - Coordinate with facility web designer
 - Coordinate with surgeon's practice(s) web designer
 - Implement "microsite" strategy.
 - This allows us to direct traffic and easily track it.
 - Begin a PPC Google AdWords campaign
 - Surgeon Locator
- **Begin Planning "Meet the Robot" event.**
 - Date
 - Time
 - Location
 - Participants



Design Collateral Materials

Patient education content and templates using your brand guidelines.



knee pain makes a big difference in your life. So can NAVIO® Robotics.

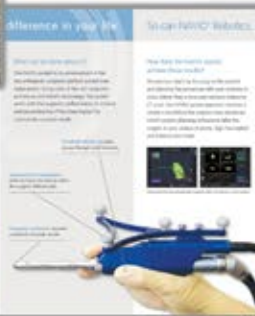
What causes knee pain?

As we age, our bodies naturally wear down. The cartilage in your knees can become thinner, making it harder to move. This can lead to knee pain. But there's a solution. NAVIO Robotics can help. It's a minimally invasive procedure that can reduce pain and improve your quality of life.

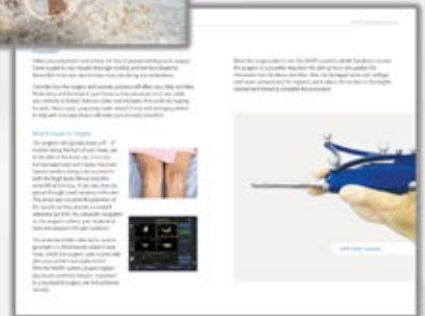
1 2 3 4 5 6 7 8 9 10

Dr. Thompson Dr. Smith Dr. Jones Dr. Lee Dr. Kim Dr. Brown Dr. Wilson Dr. Davis Dr. Miller Dr. Garcia

NAVIO brochure



Knee pain discussion guide



Procedure guide

Design Collateral Materials

NAVIO Robotics signage, print ads, mail campaigns content and templates



Signage



Print ads

Why print? 80% of seniors read a local daily newspaper



Mail campaigns

Why direct mail? Direct Mail allows for predictive modeling and cloning based on data obtained from consumer lists – very targeted approach



Surgeon and Center Database

This is a new technique we have been using that can be highly effective.

If the surgeon/surgeon's office has been keeping records of the people who have come through clinic in the past this can be a very low cost high reward group. As you might guess, 9 out of 10 patients who are seen and need a knee procedure often do not get one for various reasons so this is a great audience to target. Our third party agency who is HIPPA trained and compliant understand how to reach out to this group professionally and encourage them to attend upcoming patient seminars. Patients who maybe were not ready to have their knee addressed are now. Many of them were seen before NAVIO was released and robotic-assisted surgery may be the new technology they have been waiting for.

We need to work with who can give us access to the electronic data records so that we can scrub them appropriately so we are targeting correctly.

If we are lucky enough to get access to the surgery centers database, they too can be a valuable asset. Maybe they had a shoulder surgery three years ago and need a partial knee today? They all have friends and people talk.

Newspaper Review

- Newspaper has served us well. 65-85% of our seminars come from this medium.
- A large number of people in our demographic are still reading the newspaper.
- We like to use more than one of them if possible. *(Carrie is going to supply us with local papers that will allow us to target appropriately yet not blow the budget.)*
- We look for those that target the geography and demographics.

Facebook & Instagram Advertising



Benefits of using Facebook to target your audience:

- We find your target customers among the 890 million people on Facebook everyday*
- We drive people to your brand with one click from the most engaging places on Facebook
- We measure how your ads are performing and optimize them for even higher returns

We create & manage any Facebook/Instagram ad campaign:

- We test different ad creative and ad copy for best results
- We Measure the performance of your ads

We develop your audience by targeting:

- | | |
|---------------------|--------------------|
| • Income | • Home Ownership |
| • Interest Criteria | • Buying |
| • Geography | • Habits |
| • Demographics | • Profile keywords |

Target a community of more than 400M on Instagram!

- We share your brand with a highly engaged audience in a creative, high-quality environment.
- We drive mass awareness an audience with placement in the top ad position of Instagram's feed

Facebook

Desktop News Feed & Right Column



Mobile News Feed



Instagram

Mobile News Feed



Brand Awareness vs. Lead Generation

Highly Targeted Audience of: 27,000 People

Location: New Albany, OH + 35 mi.

Age: 40+

Gender: All

Interests: Knee Arthritis, Knee Examination, Medial Knee Injuries, Patellofemoral Syndrome, Tear of Meniscus, Smith and Nephew, Surgeons, etc.

Lead Generation is the best solution to achieving as many contacts/Leads as possible. Facebook's Data Base will automatically fill in all of the users information into a form so all the user is expected to do is hit submit. These forms are highly customizable.

Google Network

Google Search:

The Google AdWords is based on a "Pay Per Click" model (PPC), so you only pay when someone clicks on your ad. Pay as you go for guaranteed traffic! Additionally, you are reaching users in live time who are searching for keywords in relation to your product.

Google Display:

Display Advertising offers trackable, interactive, rich media ads that can be delivered at scale to highly targeted audiences. We use some of the most effective targeting solutions to deliver our client's value propositions to their ideal customers across every online device.



Search Ad Placements

Google Search:



Sample Keywords	Estimated Searches/Mo.
Knee Pain	600
Knee Replacement	180
Arthroscopy	170
Partial Knee Replacement	80
Orthopedic Surgeon	270
Total Knee Replacement	55

Google Display:

Contextual Keywords	Impressions/Wk
Knee Replacement Surgery	100K – 150K
Knee Surgeon	15K-20K
Knee Surgery	150K-200K
Knee Doctor	15K – 20K
Knee Surgery Doctor	50K – 100K

Targeting:

- Contextual Targeting
- Interest-Based Targeting
- Site Topic Targeting
- Placement Targeting



Display Ad Placements

Google Display Network

NAVIO° Commercial Example

PLACEHOLDER (NWH Commercial) I highly recommend an informational video discussing knee replacement and the value of having robotic-assistance on your website.

This will help differentiate your position with your competition in the area. I have done partials for years but NAVIO gives me advantages that directly correlate to better care.



Local News Coverage Example

PLACEHOLDER (ASC/ Medical Center)

If you have a prominent person in the community or a celebrity that would make a good testimonial then sometimes we can get the local media to pick it up. Usually it works best coming from your office and looks less like an ad from Implant Co. Do you have a relationship with anyone from the local media?



Video

In 2016, online video accounted for 64% of all consumer internet traffic and is expected to rise to 79% by 2018



of consumers watch videos online every week



is the average conversion rate for websites using video, compared to 2.9% for those that don't



of brand websites feature video content



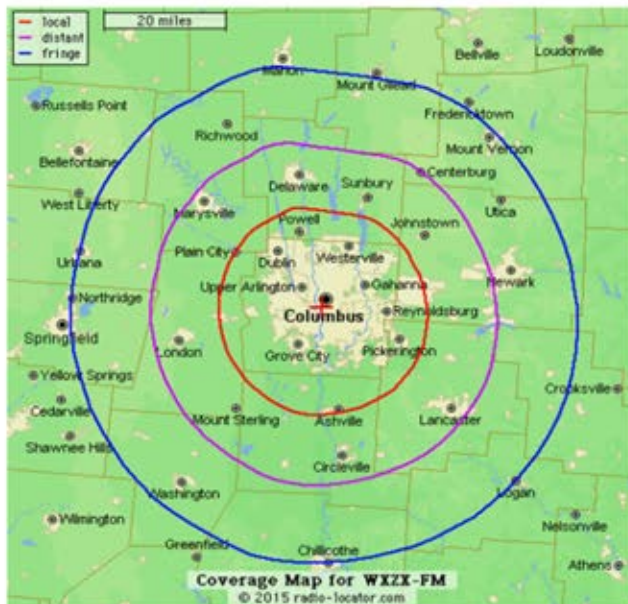
4 times as many consumers would rather watch a video about a product than read about it



of marketers claim video produces more conversions than any other content

Costs for video production varies across markets: (low as \$15K-High of \$25K)

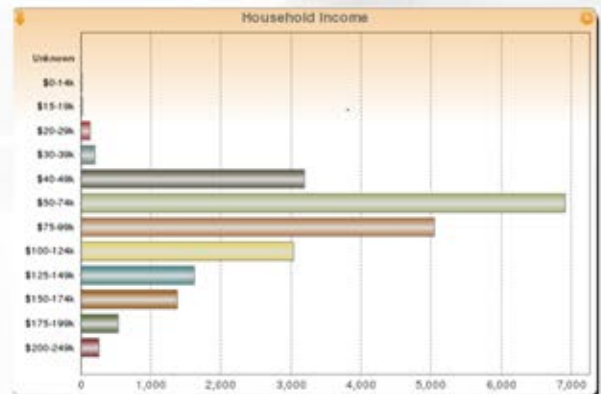
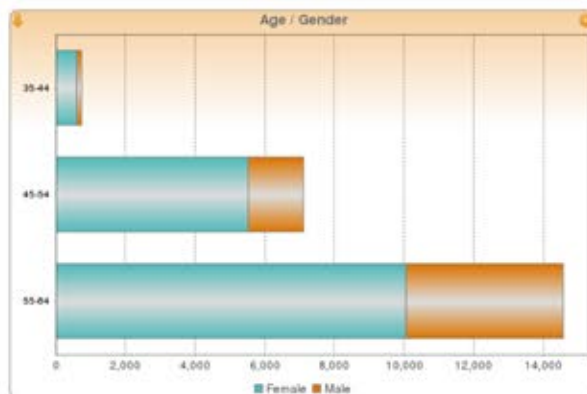
Radio



- We have maps for all radio stations to assure coverage.
- We make sure our demographic is being captured
- It cost more to focus on a specific time of run so we do our best to negotiate this.
- We include a strong call to action to sign up for the event.
- Have you found it effective in the Toledo market?

Avera 70 mile radius yields Potential 22,423

This is for those in the Elevated, High & Extreme Risk data base.

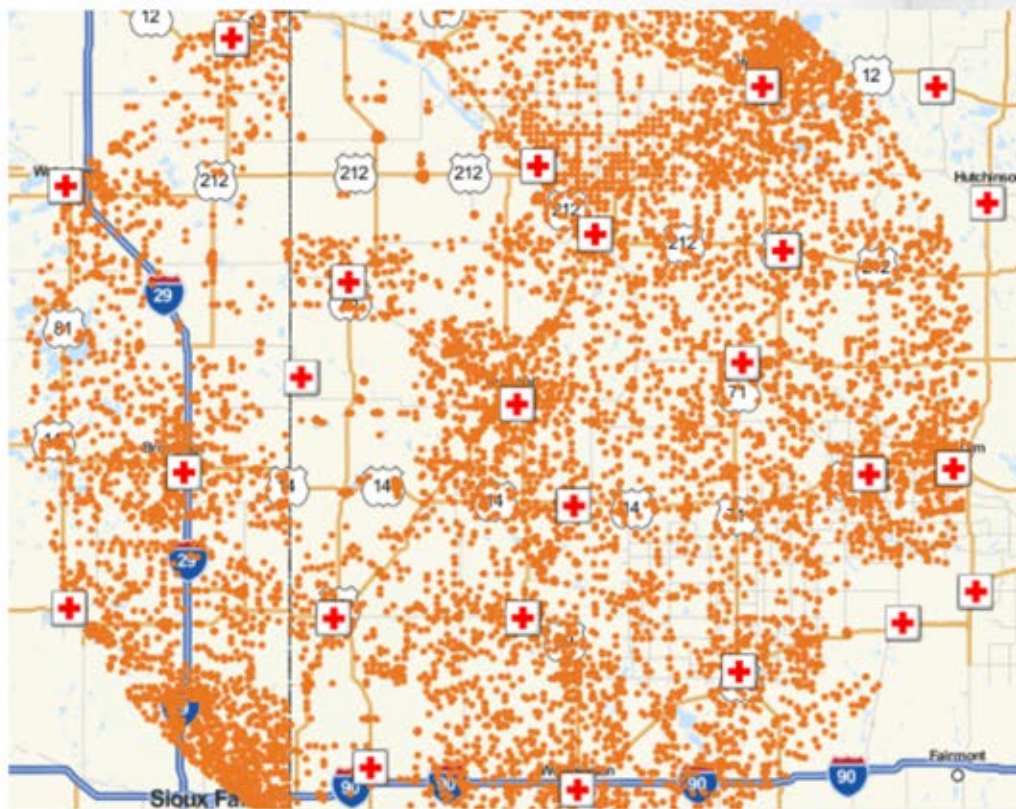


For direct mail, email campaigns and targeting

- Example of Targeting Criteria
 - 70 mile radius of Center
 - Ages 40-64
 - Optimized insurance payers
 - AND fits criteria:
 - Modeling high risk for Osteoarthritis, surgery
 - Self reported conditions
 - Arthritis, joint pain, OTC pain, Rx pain



Hospitals Noted





SAMPLE BUSINESS INTELLIGENCE REPORTING

Coflex Branding &
Business Growth
Team

Ms. Emily Bearrs
Ms. Cali Reinke
Mr. Jack Maertens

"We develop a customized approach to maximize your business"



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Introduction

Smith & Nephew Joint Reconstruction Division conducted locally targeted, joint Co-Op Digital Marketing campaigns with SN surgeons to educate local consumers regarding the following SN implant technologies:

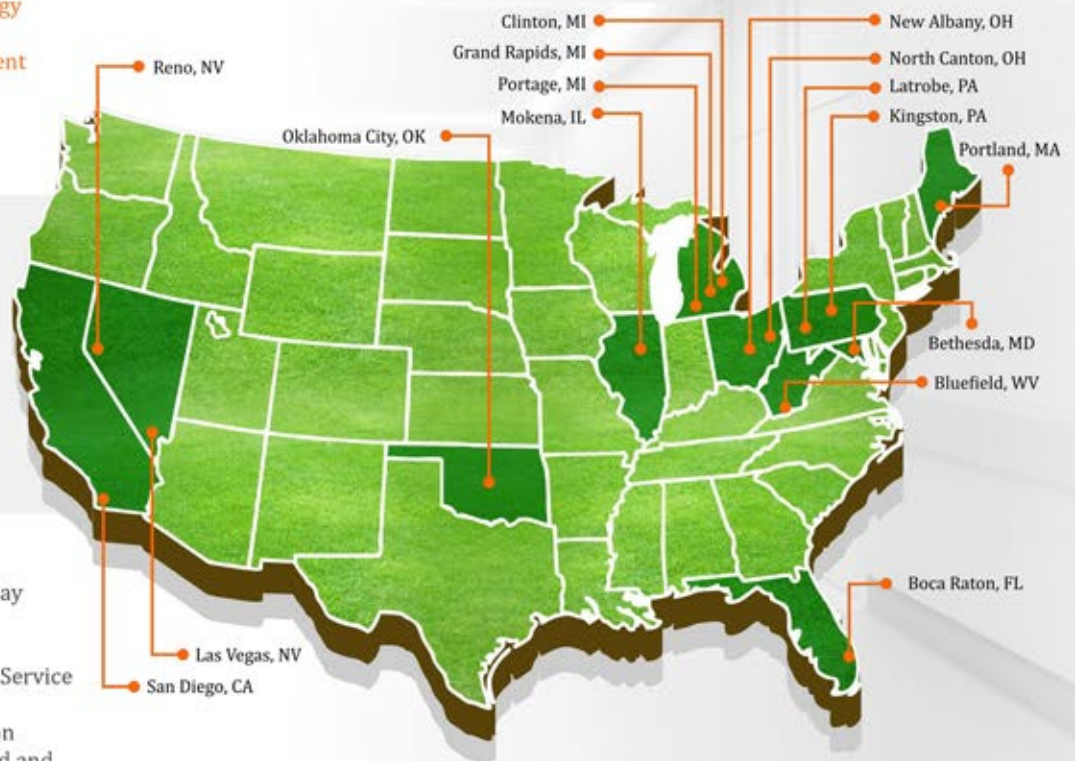
- VERILAST Knee
- VISIONAIRE Patient-Matched Technology
- Partial Knee Replacement
- JOURNEY II Uni Partial Knee Replacement
- ZUK Partial Knee Replacement
- VERILAST Hip
- Direct Anterior Approach

The digital display of choice for these campaigns was Google Display advertising. Display advertising offers trackable, interactive, rich media ads that can be delivered at scale to highly targeted audiences. We use some of the most effective targeting solutions to deliver our surgeon's and Smith & Nephew branded content to the ideal consumer across every online device.

Annual Statistics

2017 SN Co-Op Joint Recon & NAVIO Display Advertising Campaigns:

- 19 Individual Campaigns
- Total Y-T-D Impressions Across All SN Service Offerings: 758,943
- Total Y-T-D New Appt Calls Into Surgeon Practices: 1,584 – Includes Unanswered and Repeat Callers.





SUCCESS STORY

SurgiCare of Boca Raton

- Total # of Impressions: 56,342
- Total # of Clicks: 1,692
- Average CPC: \$ 7.38
- Total Campaign Spend: \$ 12,500
- Monthly Campaign Spend: \$ 4,166
- Average Daily Spend: \$ 138.88
- Average Daily Clicks: 18.80
- SN Co-Op Spend: \$ 6,250
- Total Cost Per Lead: \$ 145
- Total SN Cost Per Lead: \$ 72
- Total Campaign Leads: 86
- Appointments Prior To 2 Events: 23
- Surgeries Scheduled Prior to Events: 6
- Surgeries Post Event #1: 8



Boca Raton, FL

- SN Comm. Manager: Jack Maertens
- SN Technology: NAVIO Robotic Surgical System
- Campaign Period: April - May, 2017 & Sept - Nov 2, 2017
- Campaign Duration: 3.5 Months TL
- Campaign Demographics/Radius: 25 Miles





SUCCESS STORY

Dr. PK

- ✔ Total # of Impressions: 105,914
- ✔ Total # of Clicks: 2,184
- ✔ Average CPC: \$ 6.18
- ✔ Total Campaign Spend: \$ 13,500
- ✔ Monthly Campaign Spend: \$ 1,500
- ✔ Average Daily Spend: \$ 50.00
- ✔ Average Daily Clicks: 8.08
- ✔ SN Co-Op Spend: \$ 6,750
- ✔ Total Combined SN Spend: \$ 6,750
- ✔ Appointments Into Practice: 64
- ✔ Confirmed Surgical Cases Scheduled: 8
- ✔ SN Projected Gross Revenue:
 $\$4,500/\text{Case} \times 8 \text{ Cases} = \$36,000$
 $\$36,000 - \$6,975 - \text{Net: } \$29,025$



Las Vegas, NV

- SN Comm. Manager: Marcy Black
- SN Technology: VERILAST Knee & Hip
- Campaign Period: February - November 2017
- Campaign Duration: 9.0 Months
- Campaign Demographics/Radius: 25 Miles

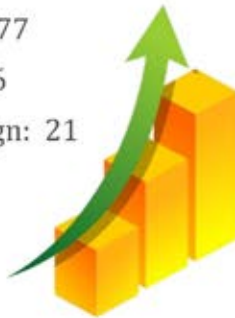




SUCCESS STORY

MOrthopedic Hospital

- ✔ Total # of Impressions: 77,517
- ✔ Total # of Clicks: 2,324
- ✔ Average CPC: \$ 6.02
- ✔ Total Campaign Spend: \$ 14,000
- ✔ Monthly Campaign Spend: \$ 3,500
- ✔ Average Daily Spend: \$ 113.82
- ✔ Average Daily Clicks: 18.89
- ✔ Total SN Cost Per Lead: \$ 91
- ✔ Total Campaign Leads: 77
- ✔ Calls Into Campaign: 56
- ✔ Form Fills Into Campaign: 21



Oklahoma City, OK

- SN Comm. Manager: Robert Plush
- SN Technology: NAVIO Robotic Surgical System
- Campaign Period: July - October, 2017
- Campaign Duration: 4 Months
- Campaign Demographics/Radius: 50 Miles

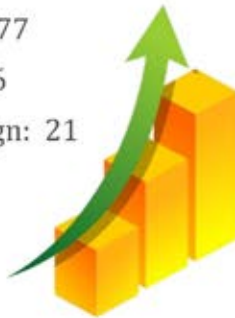




SUCCESS STORY

ON

- ✔ Total # of Impressions: 77,517
- ✔ Total # of Clicks: 2,324
- ✔ Average CPC: \$ 6.02
- ✔ Total Campaign Spend: \$ 14,000
- ✔ Monthly Campaign Spend: \$ 3,500
- ✔ Average Daily Spend: \$ 113.82
- ✔ Average Daily Clicks: 18.89
- ✔ Total SN Cost Per Lead: \$ 91
- ✔ Total Campaign Leads: 77
- ✔ Calls Into Campaign: 56
- ✔ Form Fills Into Campaign: 21



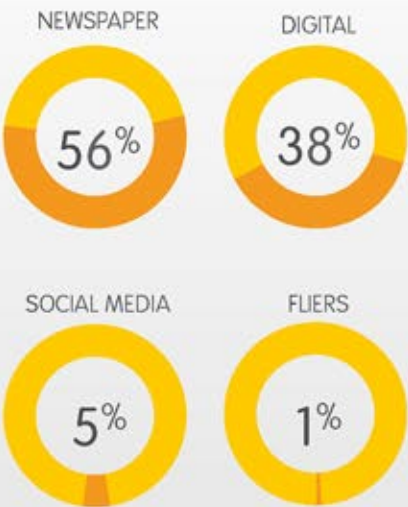
New Albany, OH

- SN Comm. Manager:
- SN Technology: NAVIO Robotic Surgical System
- Campaign Period: July - October, 2017
- Campaign Duration: 4 Months
- Campaign Demographics/Radius: 50 Miles



Robotic Surgical System

Of the 296 combined attendees, the following represents the response percentages per medium used:



Campaign Areas:

- 1. Canton - 25%
- 2. Massillon - 18%
- 3. No. Canton - 11%
- 4. Canal Fulton - 5%
- 5. Ravenna - 5%
- 6. Stow - 4%
- 7. Sugarcreek - 4%
- 8. Atwater - 4%
- 9. Collectively - 24% - 3% Each:
 - A Alliance
 - B Bolivar
 - C Dover
 - D East Sparta
 - E Louisville,
 - F Navarre
 - G New Philadelphia
 - H Uniontown



Additional Towns Captured:
Fairlawn, Dundee, Hartville, Marshallville,
Tallmadge, East Canton, Green, Smithville,
Clinton, Dennison, Cuyahoga Falls, Copley, Homeworth



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Q4 - 2017

NAVIO™ Robotic Surgical System
Events Report

Robotic Surgical System

Timeline of events/seminars etc.
that drove activity.

Q4 - 2017

New NAVIO Cases: 50

Event #1

September 26, 2017

- Pre-leads for PPC: 12
- # of Event Attendees: 117
- #Leads generated at the event: 31
- Microsite Developed
- Surgeon Interviews Completed
- Patient Interviews Scheduled

Event #2

October 24, 2017

- Pre-leads from PPC Campaign: 7
- # of Event Attendees: 88
- # of Leads generated at the event: 44

Event #3

November 7, 2017

- Pre-leads from PPC Campaign: 8
- # of Event Attendees: 91
- #Leads generated at the event: 31
- #Leads generated post event: 4

Totals for All 3 Events:

- Pre-leads from PPC Campaigns: 27
- # of Event Attendees: 296
- #Leads generated at events: 108
- #Leads generated post events: 4
- New Leads Generated From Stand-Alone, 7 Month PPC Campaign: 63

Robotic Surgical System



Event Activities

By Surgeon

Dr. A:
September | 3
October | 1
November | 16

Dr. B:
September | 10
October | 6
November | 8

Dr. C:
September | 1
November | 4

Dr. D:
November | 6

Timeline of events/seminars etc.
that drove activity.

Graph View



	Sept.	Oct.	Nov.
Dr. A	3	1	16
Dr. B	10	6	8
Dr. C	1	0	4
Dr. D	0	0	6

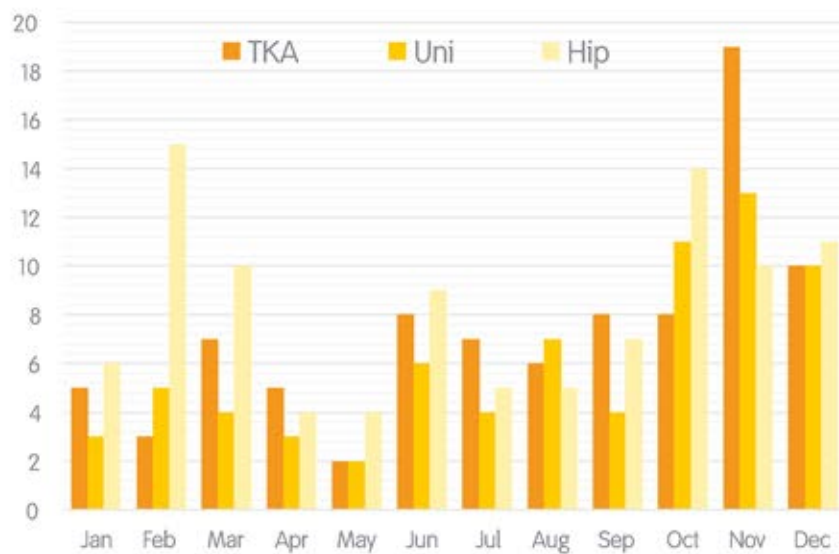
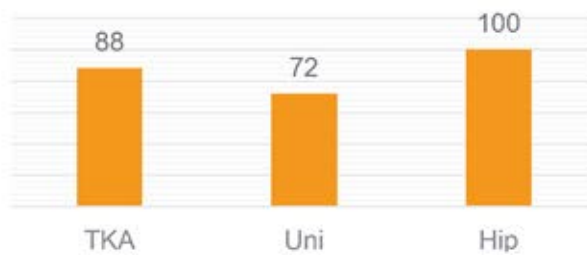
Robotic Surgical System

Month	TKA	Uni	Hip
Jan	5	3	6
Feb	3	5	15
Mar	7	4	10
Apr	5	3	4
May	2	2	4
Jun	8	6	9
Jul	7	4	5
Aug	6	7	5
Sep	8	4	7
Oct	8	11	14
Nov	19	13	10
Dec	10	10	11
Total	88	72	100

TOTAL

260

Total Joint Replacements 2016



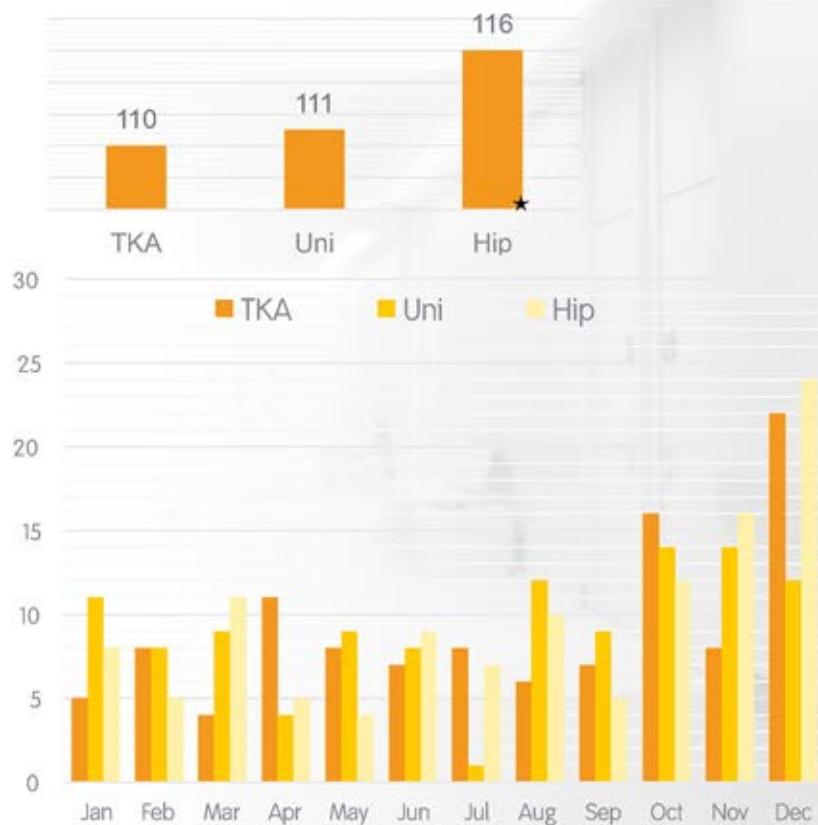
Robotic Surgical System

Month	TKA	Uni	Hip
Jan	5	11	8
Feb	8	8	5
Mar	4	9	11
Apr	11	4	5
May	8	9	4
Jun	7	8	9
Jul	8	1	7
Aug	6	12	10
Sep	7	9	5
Oct	16	14	12
Nov	8	14	16
Dec	22	12	24
Total	110	111	116

TOTAL

337

Total Joint Replacements 2017



* Halo affect identified for Non-Navio procedures

Robotic Surgical System

FIRST QUARTER 2017

TKA	17
UNI	28
HIP	24

SECOND QUARTER 2017

TKA	26
UNI	21
HIP	18

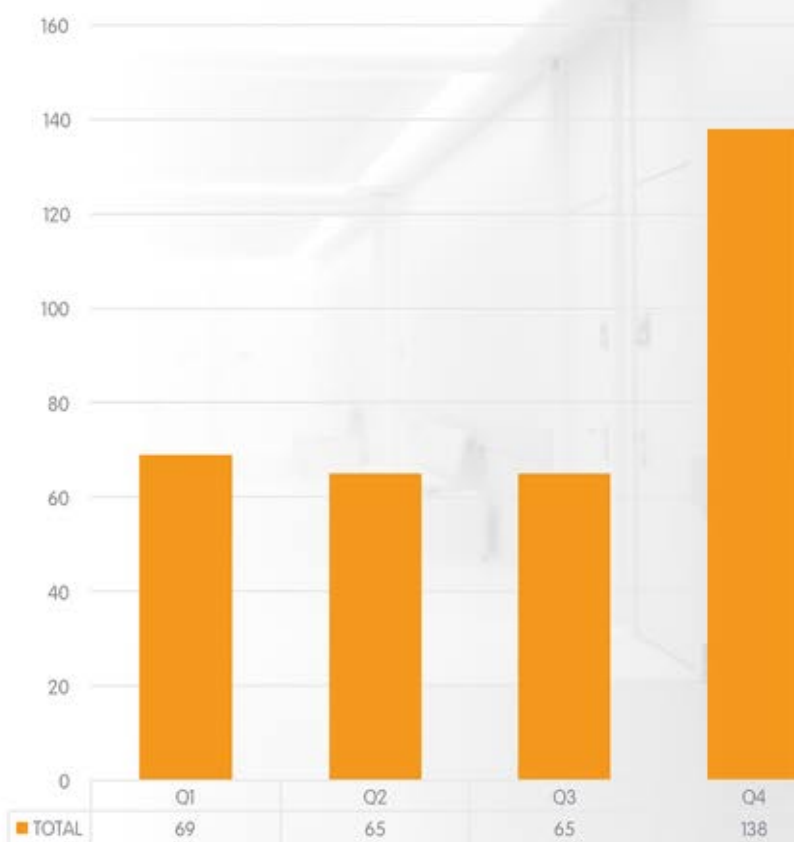
THIRD QUARTER 2017

TKA	21
UNI	22
HIP	22

FORTH QUARTER 2017

TKA	46
UNI	40
HIP	52

Quarterly Results 2017



Robotic Surgical System



Robotic Surgical System

2016

2017

TOTAL
260

TOTAL
337

TKA	2016	2017	Status
Jan	5	5	▲
Feb	3	8	▲
Mar	7	4	▼
Apr	5	11	▲
May	2	8	▲
Jun	8	7	▼
Jul	7	8	▲
Aug	6	6	●
Sep	8	7	▼
Oct	8	16	▲
Nov	19	8	▼
Dec	10	22	▲
Total	88	110	▲

UNI	2016	2017	Status
Jan	3	11	▲
Feb	5	8	▲
Mar	4	9	▲
Apr	3	4	▲
May	2	9	▲
Jun	6	8	▲
Jul	4	1	▼
Aug	7	12	▲
Sep	4	9	▲
Oct	11	14	▲
Nov	13	14	▲
Dec	10	12	▲
Total	72	111	▲

HIP	2016	2017	Status
Jan	6	8	▲
Feb	15	5	▼
Mar	10	11	▲
Apr	4	5	▲
May	4	4	●
Jun	9	9	●
Jul	5	7	▲
Aug	5	10	▲
Sep	7	5	▼
Oct	14	12	▼
Nov	10	16	▲
Dec	11	24	▲
Total	100	116	▲

