

2022 JOINT REPLACEMENT OUTCOMES GUIDE



REGIONALLY RANKED

#1 in Maine

Recognized in Coastal Maine #1 in Portland





MEET THE TEAM



Nicholas D. Colacchio, MD

Specializes in revision arthroplasty, knee and hip arthroplasty

Team: Patrick Furlong, PA-C Daniel Cassell, PA-C

Residency: Tufts Medical Center. Orthopedic Surgery, 2017



Adam J. Rana, MD

Specializes in hip and knee arthroplasty

Team:

Amelia Knowles, PA-C Courtney Minzy, PA-C

Residency: **Boston Medical** Center, Orthopedic Surgery, 2011

AAOS, MSOS, EOA, NEOS, 2012- present



Michael W. Becker, MD

Specializes in knee arthroplasty

Team:

Angela Jagoutz, APRN-FNP. Michelle Sterling, APRN-**FNP**

Residency NewYork-Presbyterian Hospital, Orthopedic Surgery, 1988

Maine Medical Center since 1990



Brian J. McGrory, MD

Specializes in hip and knee arthroplasty

Team:

Abigail Gallant, PA-C

Residency: Mayo Clinic, Orthopedic Surgery, 1994

Founding Editor and **Editor Emeritus of** Arthroplasty Today

George M. Babikian, MD Jonathan P. Watling, MD

Specializes in hip arthroplasty

Specializes in shoulder arthroplasty and shoulder arthroscopy

Team:

Paul Evans, PA-C Katie Dobos, APRN-FNP

Residency: State University at New York Buffalo, Orthopedic Surgery, 1992

Chief of Orthopedics

Team:

Melanie Campbell, **APRN-FNP** Rupi Gill, PA-C

Residency:

New York-Presbyterian, Orthopedic Surgery, 2016

Maine Medical Center since 1993

Maine Medical Center since 2017

Maine Medical Center since 2018

Maine Medical Center since 2012

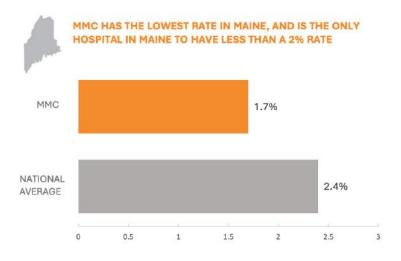
Maine Medical Center since 1995



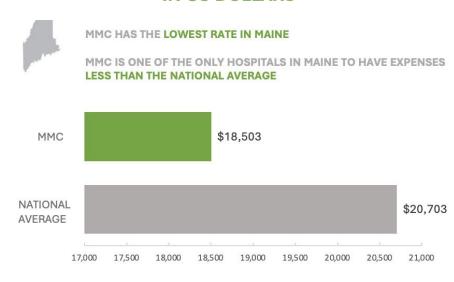
A TOP-PERFORMING JOINT REPLACEMENT PROGRAM

We are very fortunate to have information on many metrics in health care. Not opinion or intuition, but data that has been carefully collected. This evidence, is not biased and is relevant to decision making for patients and their families. Hospital Compare is part of the Centers for Medicare and Medicaid Services (CMS) Hospital quality initiative. All hospitals in the United States that take care of Medicare and Medicaid patients are included in this analysis (over 4,000 Medicare-certified hospitals and over 130 Veterans Administration medical centers), and CMS looks at three very important aspects of hip and knee replacement surgery: complication rate, readmissions, and hospital payments.

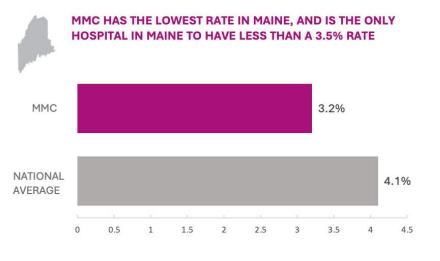
HIP/KNEE REPLACEMENT COMPLICATION RATE



PAYMENT FOR HIP/KNEE REPLACEMENT PATIENTS IN US DOLLARS



HIP/KNEE REPLACEMENT READMISSION RATE



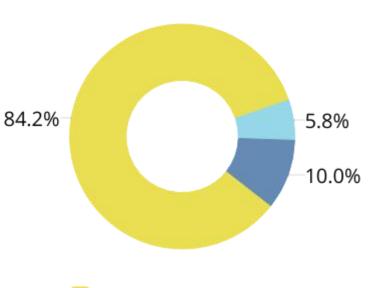


JOINT REPLACMENT SURGICAL VOLUME AND STATS: A LOOK AT 2022

2022 Joint Replacement Surgeries by Surgery Type

2022 Joint Replacement Program Highlights

- 2,402 surgeries performed in 2022
- 57.7% of surgeries performed at Scarbrough Surgery Center
- 97.8% of primary joint patients were discharged home
- Length of stay reduced for all primary joints from 2021
- 14,899 office visits
 - 14% of office visits were done by Telehealth
- PROM Questionnaires were collected entirely through MyChart
- ABLE hip replacement research published in Arthroplasty Today

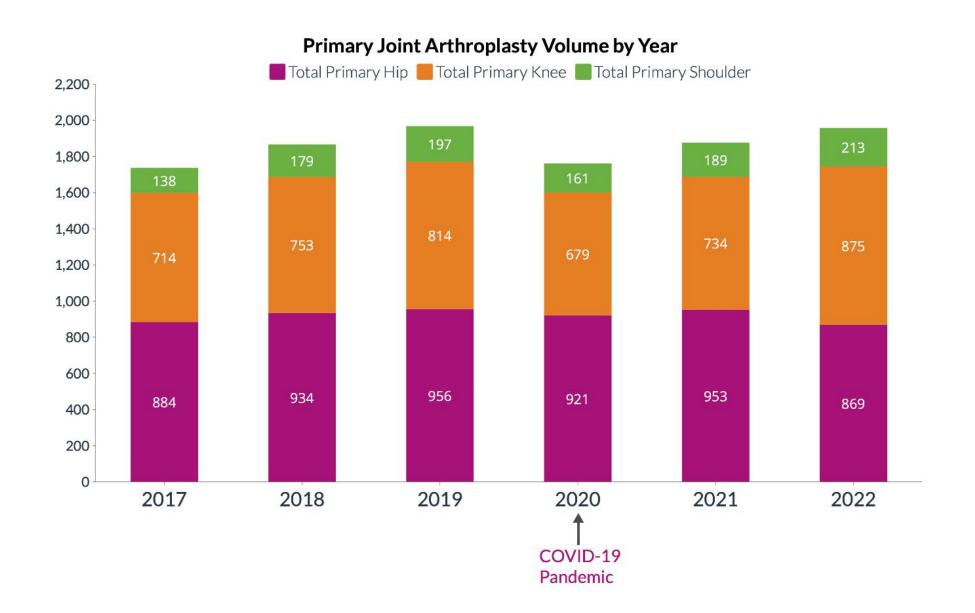




Other



PRIMARY SURGICAL VOLUME BY YEAR





SURGICAL VOLUME BY LOCATION

MMP ORTHO JOINT: SURGICAL VOLUME BY LOCATION

2,600 2,400 2,200 2.000 1.800 1,600 1,400 1,200 1.000 800 1,386 600 400 200 2017 2018 2019 2020 2021 2022 MMC's Ambulatory Surgery Center (Scarborough) MMC Hospital

SCARBOROUGH SURGERY CENTER VOLUME BY YEAR AND PROCEDURE TYPE

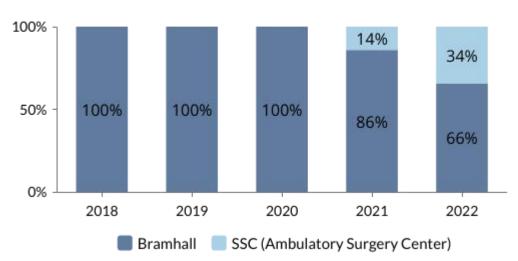


- Since 2017, MMP Orthopedics and Sports Medicine, division of Joint Replacement has performed operations at two locations: MMC's primary location (Bramhall) and Scarborough Surgery Center
- The % of MMP Ortho Joint surgeries performed at SSC have increased significantly over the last 6 years. It has grown from 10% of cases in 2017 to 58% of cases in 2022



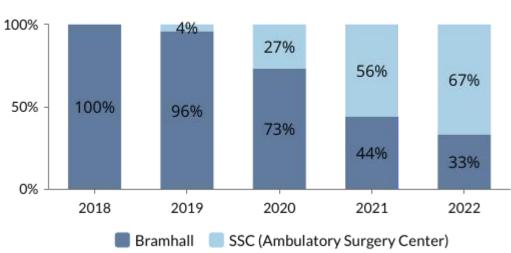
Total Knee Arthroplasty Volume By Location

2018-2022



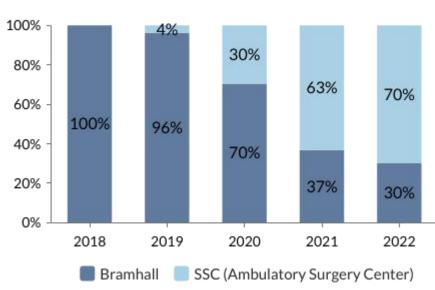
Total Shoulder Arthroplasty Volume by Location

2018-2022



Total Hip Arthroplasty Volume by Location

2018-2022

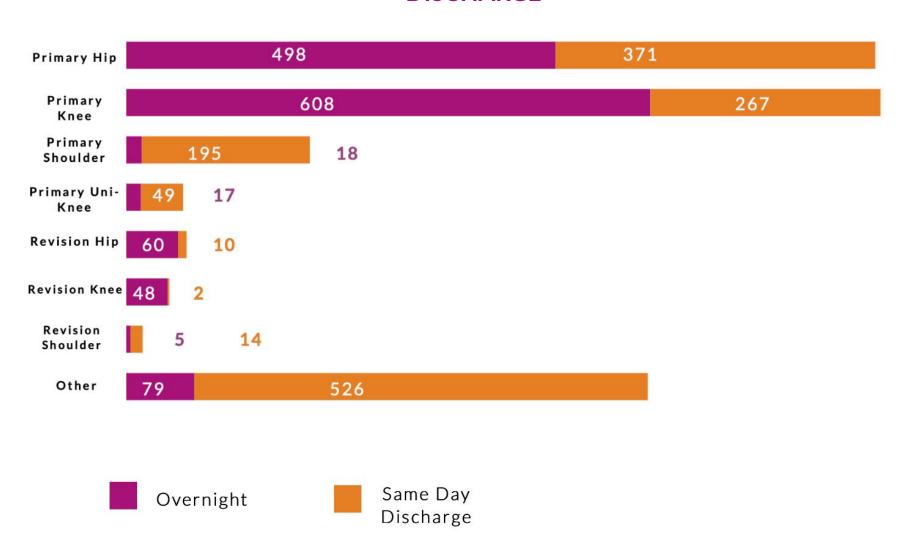


There has been immense growth for Joint Replacements at Maine Medical Center's Ambulatory surgery center Scarborough Surgery Center (SSC) since 2018

- The first primary THA was performed at SSC in 2019
 - In 2019, 4% of all THAs were done at SSC and in 2022, 70% of THAs were done at SSC
- The first primary TSA was performed at SSC in 2019
 - In 2019, 4% of all THAs were done at SSC and in 2022, 67% of TSAs were done at SSC
- The first primary TKA was performed at SSC in 2021
 - In 2021, 14% of TKAs were performed at SSC and in 2022 34% of TKAs were performed at SSC

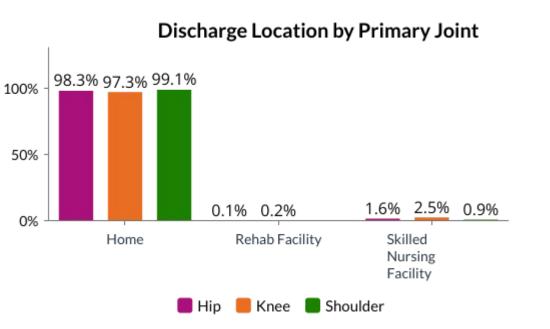


2022 SURGICAL VOLUME BY OVERNIGHT AND SAME DAY DISCHARGE





2022 DISCHARGE DISPOSITION



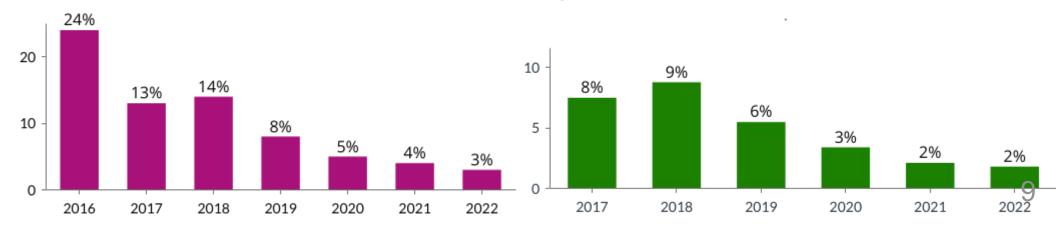
Over 97% of primary hip, knee and shoulder cases were discharged directly to their home, with home health care as needed to enhance patient support. We know patients can be anxious to get home, that's why, especially in the context of the COVID-19 pandemic, discharging patients home with supportive care as necessary is a priority for MMP Orthopedics.

MMP's discharge home rates are better than the national average

- The American Joint Replacement Registry (AJRR) reports that nationally 92.9% of TKA patients were discharged home. MMP exceeded that, 97% of patients went home.
- The AJRR reports that nationally 92% of THA patients were discharged home. MMP exceeds that, 98% of patients went home.

Percentage of Knee Replacements Discharged To a Skilled Nursing Facility or Rehab

Percentage of Hip Replacement Patients Discharged to a Skilled Nursing Facility or Rehab

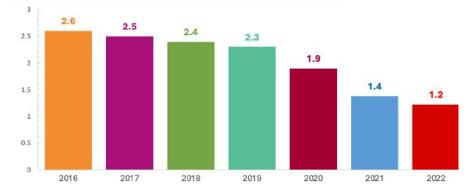




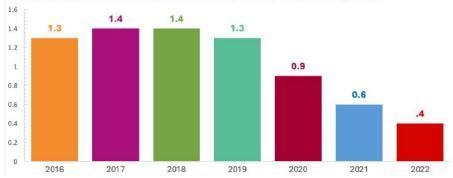
LENGTH OF STAY



TOTAL KNEE REPLACEMENT AVERAGE LENGTH OF STAY (DAYS)



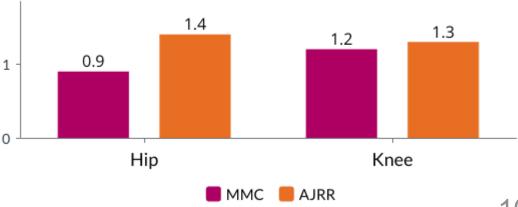
TOTAL SHOULDER REPLACEMENT AVERAGE LENGTH OF STAY (DAYS)



Joint replacement surgery had been associated with hospital stays averaging three to four days. The staff at MMC Joint Replacement Center has worked to develop a Next Day Joint Replacement Program, with comfortable discharge home following surgery. The success of the Total Hip Replacement program revolves around patient education, multimodal pain control, reduced trauma to the soft tissues at the time of surgery, consistent messaging by staff, and a smooth episode of care pathway.

Length of stay (LOS) for hip, knee and shoulder has reduced drastically at MMC since 2016. Looking at our own results over the years shows the improvements that we've made to our program. Additionally, our results are superior when compared to national averages published in the American Joint Replacement Registry (AJRR). This is data we are proud of; we get patients home faster than the national average so they can recover in the comfort of their own home.

Joint Replacement Length of Stay: MMC vs AJRR





PATIENT-REPORTED OUTCOME MEASURES: COLLECTION

Collecting information directly from patients on their pre-operative pain and function as well as their post-operative pain, function and satisfaction allows MMP Ortho to use those data points to continue to evalute and ultimately advance patient care for joint surgery. MMP Ortho routinely collects patient report outcome measure (PROM) data through questionnaires sent before and after surgery. These questionnaires are sent entirely through MyChart (EPIC's patient portal) which allows for patients to easily enter the data and MMP to easily see the data.

Joint Replacement
Patients sent a
questionnaire through
MyChart before their
surgery

62% of patients completed a pre-op questionnaire Joint Replacement
Patients sent a
questionnaire through
MyChart at 6 weeks or
3 months post-op

45% of patients completed a

Joint Replacement
Patients sent a
questionnaire through
MyChart annually
around the anniversary
of their surgery

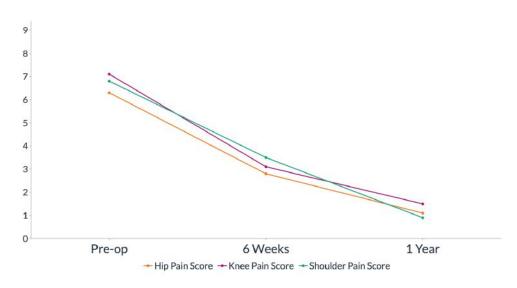
38% of patients completed an annual post-op questionnaire



PATIENT-REPORTED OUTCOME MEASURES

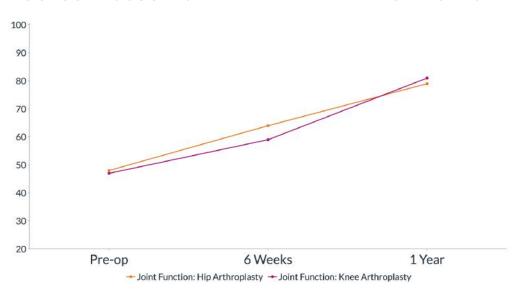
Our team's dedication to patient care, innovative spirit, medical knowledge, technical skill, and above all, desire and ability to improve, allow us to be one of the top joint replacement programs in the country. The desire and ability to change for the better is wholly dependent on understanding and reacting to our results in real time. Joint pain and function are two of the leading reasons why patients decide to undergo joint replacement procedures.

PAIN SCORES: HIPS, KNEES, SHOULDERS



Average pain scores reported by patients before and after surgery. Pain is measured on a visual analog scale from 0-10, 10 (most pain) and 0 (no pain).

OUTCOMES SCORES: HIP AND KNEE ARTHROPLASTIES



Over the course of one year, (and just six weeks after surgery) total hip and total knee replacement patients statistically improve their respective hip and knee function.

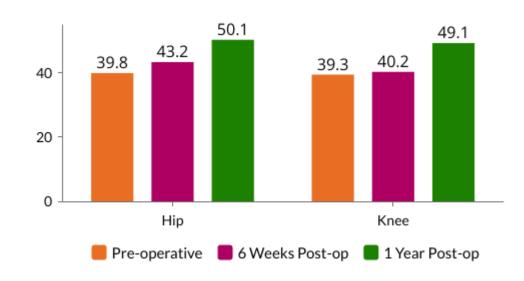


OUTCOMES SCORES: MENTAL HEALTH

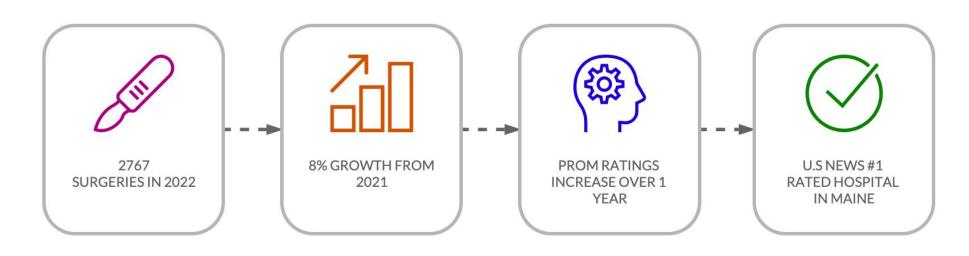
50 - 48.8 50.3 52.1 48.0 50.6 51.8 48.0 30 - 20 THA TKA Pre-operative 6 Weeks Post-op 1 Year Post-op

Mental health scores improved after joint replacement surgery at both six weeks and one year. (PROMIS-10 Mental T Score)

OUTCOMES SCORES: PHYSICAL HEALTH



Physical health scores improved after joint replacement surgery at both six weeks and significantly improved after one year (PROMIS-10 Physical T Score)





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Outcomes Guide put together by: Sam Riordan and Jered Garrison, Colby College Jan Plan Students 2023

