AtlantiCare

Healthcare you can believe in.

Hospital Based Same Day Joint Program

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AtlantiCare At a Glance







971 Providers / 300+ Employed

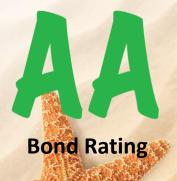


37,325 ACO
Covered Lives





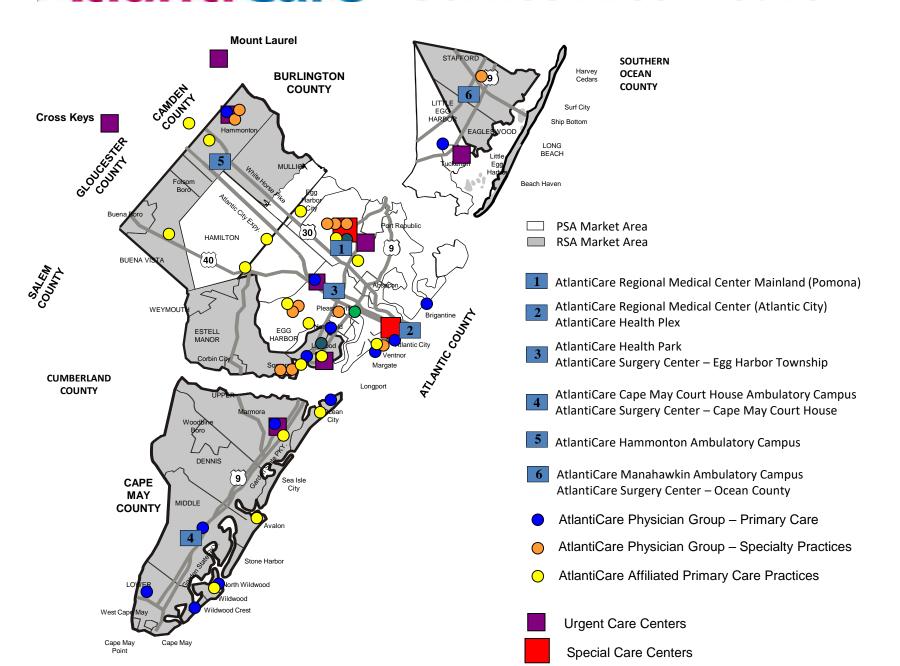


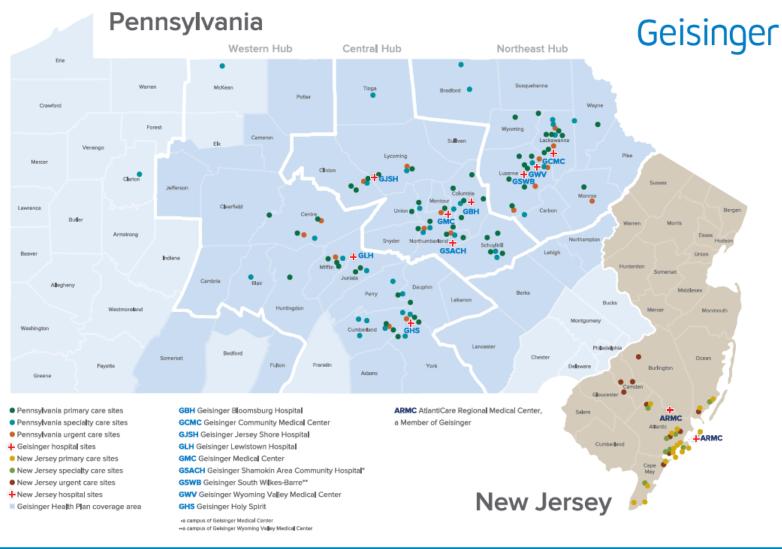






AtlantiCare Service Area Network











History of Joint Replacement at AtlantiCare

- Began to formalize the program late 90's
- Volume approximately 150 cases per year in 1999
- Current volume approximately 2500 cases per year
- Began analyzing publicly reported outcomes in 2008
- Designed multidisciplinary process to optimize patients
- Created the Center for Perioperative Medicine incorporating internal medicine practitioners and nurse navigators into the process in 2012





Atlanticare- State Rankings 2010

Quality	
	Rank in New Jersey
Joints	34/45
Spine	19/20
Overall	18/30

Volume	
	Rank in New Jersey
TKR	3/42
THR	3/42
Hip Fx	10/42
Spine	27/27
Spine Fusion	21/21







2010 Star Report

Orthopedics	In-Hospital Complications
Total Knee Replacement	*
Total Hip Replacement	***
Hip Fracture	****
Spine- General	*
Spine Fusion	***

★-Poor ★★★-Average ★★★★-Great

Released to the Public: October 14, 2009





Why Such Low Ratings?

Preventable medical complications:

- Acute Renal Failure
- Heart Attack
- Pneumonia
- Delirium
- GI problems
- Urinary Retention







Center for Perioperative Medicine (CPM)

- Focused on quality patient care and reducing complications for the elective surgical patient
- Medical model, Patient centered
- Standardized assessment/Algorithm
- Risk stratification process
- "Optimization" of patients vs. "Clearance"
- Reduced complications
- Reduced LOS
- Reduced same day cancellations







Center for Perioperative Medicine (CPM) Staffing

- 3 Hospitalist (internal medicine) physicians
- 2 APN/PA providers
- 6 RN concierge (including one TL)
 - 40 phone calls daily (8-10 calls per RN)
- 3 Medical Assistants
- 1 Registration person
- 3 Administrative associates
- 1 Clinical Manager







Center for Perioperative Medicine (CPM) Overview

- RN Concierge calls patient shortly after surgery scheduled
- Phone interview/assessment, "Trigger Form"
- "Quick Pass" visit vs. "Comprehensive" visit scheduled
- PA/APN and/or Physician assessment
- Labs and studies reviewed
- Communication to surgeon and PCP/specialists (phone and via EMR)
- Completed chart, including summary form and "At Risk" guidelines, is sent to Same Day Surgery (SDS)





Trigger Form

OSA Screening (bolded = phone screen)

Control Control	
Loud snoring	1
Neck circumference: Male 17" or > and Females 16" or >	1
(if neck circumference not available, then BMI > 35)	
Awakening with headaches	1
Witnessed apnea or awakening with choking/gasping	
Morning or daytime sleepiness, especially if this interferes with ability to keep alert in	
situations where you should keep alert (driving, work, meetings)	
Mallampati class 4 oropharynx	1 (on exam)
Tonsillar hypertrophy (nearly touching)	2 (on exam)
Prior diagnosis of sleep apnea which is not treated (i.e. consistently using the CPAP or with proven effective alternate treatment)	

Circle Positives & Total Score ______

(2 or more indicates need for evaluation - sleep study)

Pulmonary Assessment

- □ No Abnormalities
- □ Pulmonary Consult

□ Tests/Studies

- □ PFT's
- □ CXR
- □ Sleep Study
- □ ABG
- □ Echocardiogram







"At Risk" Guidelines

- Guidelines help drive the care at each stage;
- Color Coded
- Evidence based
- Alert for providers
- Risk stratified order sets post op

AtlantiCare Delirium Risk Patient

Pre-operative Guidelines:

- Chart flagged as "Delirium Risk"
- Gentle pre-op hydrate
- Avoid Atropine, Scopolamine, Barbiturates, and Benzodiazepines

AtlantiCare

Urinary Retention Risk Patient

Pre-operative Guidelines:

- 1. Patient's chart is flagged as "Urinary Retention Risk"
- 2. Review urinary symptoms and optimize current symptom control

AtlantiCare Renal Risk Patient

Pre-operative Guidelines:

1. Chart flagged as "Renal Risk

AtlantiCare Pulmonary Risk Patient

- Pre Admission Testing

- Patient instructed on smoking cessation and handout given (II appropriate). If patient has Obstructive Sleep Appea (OSA), instruct them to bring CPAP mask to

- Albuterol nebulizer in pre-up holding area (if ordered by the physician) O2 via humidified tassal cannula to keep oxygen saturation > 92%.







Outcomes

- Reduced complications
- Decreased length of stay
- Increased reimbursements
- Increase quality of care
- Patient satisfaction





"We are not cancelling surgery...........We are cancelling complications by postponing surgeries"







Preoperative Risk Stratification Reduces the Incidence of Perioperative Complications After Total Knee Arthroplasty

Kristen E. Radcliff, MD,* Fabio R. Orozco, MD,* Daniel Quinones, BS,† Daniel Rhoades, BS,† Gursukhman S. Sidhu, MBBS,* and Alvin C. Ong, MD*



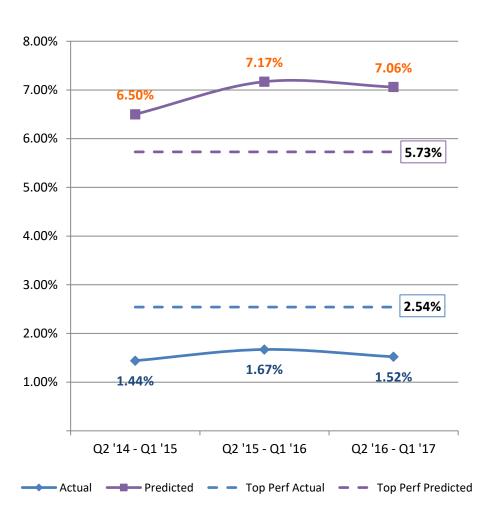




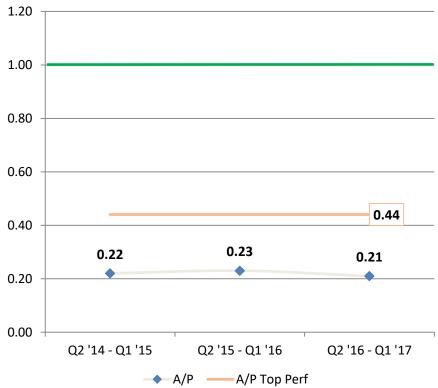


Total Knee Replacement - AtlantiCare Regional Medical Center - Atlantic City Actual vs. Predicted Complication Trends & Comparison - Annual

2014 Q2 - 2017 Q1 Client - All Payer

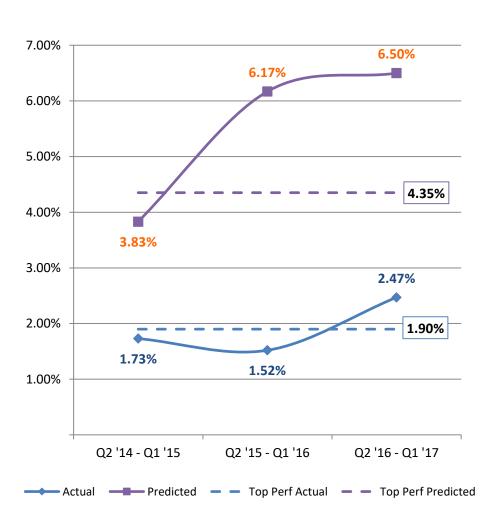


Year	Volume	Complications
Q2 '14 - Q1 '15	1181	17
Q2 '15 - Q1 '16	1255	21
Q2 '16 - Q1 '17	1318	20

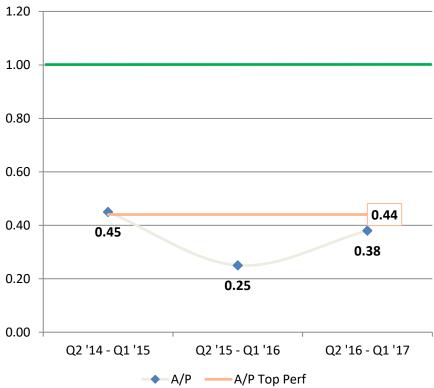


Total Hip Replacement - AtlantiCare Regional Medical Center - Atlantic City Actual vs. Predicted Complication Trends & Comparison - Annual

2014 Q2 - 2017 Q1 Client - All Payer



Year	Volume	Complications
Q2 '14 - Q1 '15	577	10
Q2 '15 - Q1 '16	593	9
Q2 '16 - Q1 '17	608	15



Our results

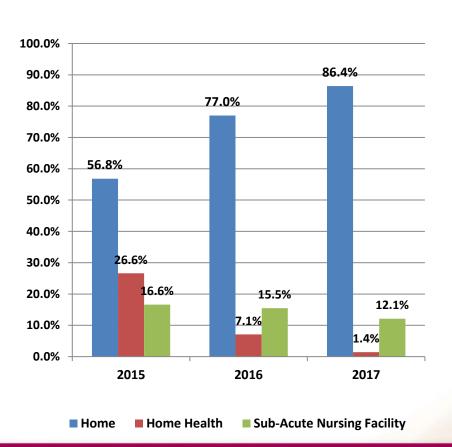
Length of Stay



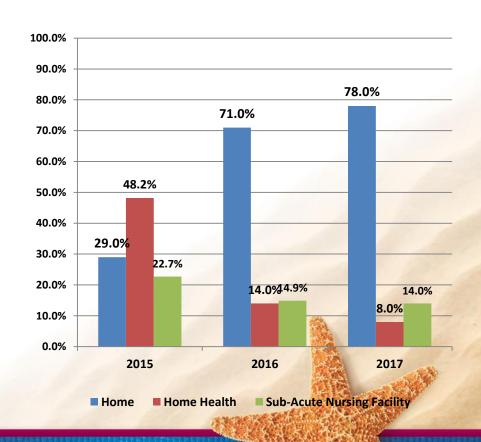


Discharge Disposition

Hips



Knees







Readmissions

Readmission Data Q1 2016 - Q 1 2017

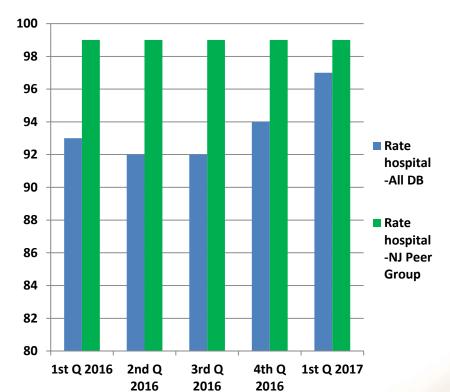




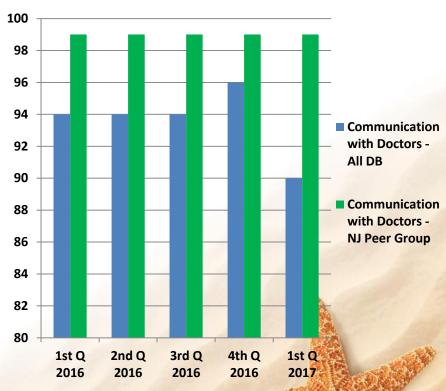


Customer Satisfaction

Rate Hospital



Communication with Doctors







Our Results

AtlantiCare Regional Medical Center New Jersey Rankings

Cohort	Quality Rank
Joints	3/44
Spinal Surgery	20/24
Ortho Overall	4/30

Cohort	Volume Rank
TKR	3/44
THR	3/44
Hip Fx	11/44
B&N	20/27
FUS	9/27





2017 Star Report

Orthopedics

Total Knee Replacement

Total Hip Replacement

Hip Fracture Treatment

Back Surgery

Spinal Fusion Surgery





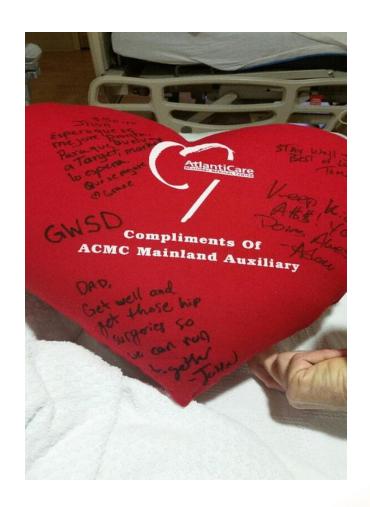








Lives Saved List



 CPM identified 53 patients (2015- 2017) who received potential life saving interventions such as stents, CABG, and TAVR (all performed here at AtlantiCare).



Our Journey-Same Day Joints

- Surgery at 7am, discharge by 5pm.
- Plan to move to ASC in 2 years
- Schedule patient as SDS, authorize outpatient
- Brief stay on Orthopedic unit
- Over 35 successful joint replacements
- All discharged to home, no post acute services







Patient Selection Criteria

- Primary TKA/THA only
- ASA 1 or 2
- Age <65
- BMI <30
- Hemoglobin
 - >13 (males)
 - >12.0 Females
- Well controlled DM, dyslipidemia, Asthma
- Patient must be able tolerate ASA for anti-coagulation prophylaxis
- Patient must be motivated and active prior to surgery
- Ideal home situation

Contraindicated in patients with:

- Cardiac stents, valves
- Hypertension (multiple medications)
- DM (uncontrolled or newly diagnosed)
- CAD/CHF
- OSA/COPD
- CKD
- Liver disease
- History of VTE (PE, DVT)
- Urinary issues (incontinence, retention, BPH)
- Neurological disorders (Parkinson's, dementia, stroke, TIA, spinal issues)
- Psych disorders (major depression, bipolar, schizophrenia)
- Chronic steroids
- Drug abuse
- Hematologic issues
- History of falls/osteoporotic fractures





Anesthesia Considerations

Pre-Op

Intra-op

Post-op

- Celebrex 200mg
- Oxycontin 10 mg
- Gabapentin 300 mg
- Tylenol 1000mg

- Short acting spinal
- IV Hydration 1-2 Liters
- Decadron & Zofran
- TXA
- Adductor blocks (knees)
- Periarticular injections (by surgeon)

- Fentanyl/morphine
- Toradol
- Zofran
- Rx for Oxycodone, Tramadol, Zofran





Patient Expectations

- Starts with the surgeon
- Same message at each touch point
- Preoperative Joint Class
- RN navigator
- Discharge instructions
- Follow up phone calls







Opportunities

- Pain control/Reduction in opioid use
- Readmissions
- ED/ Urgent Care
- PCP follow up
- Post discharge follow up phone calls
- Spread best practices to Joint program overall







Questions?







