

## CLINICAL SUMMARY

# A NOVEL MULTIMODAL APPROACH WITH ON-Q\* DEMONSTRATES 72-HOURS OF PAIN RELIEF FOLLOWING TKA

A Clinical Summary on Dr. Wickline's study, 23-hour TKA in 10 opioid pills or less through 90 days:  
A non-selected prospective consecutive one year cohort

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### OBJECTIVE

- Enhance multimodal approach for TKA to reduce opioid consumption

### METHODS

- Prospective, single-surgeon study
- 386 unilateral TKA patients enrolled in a 4 month long multimodal protocol

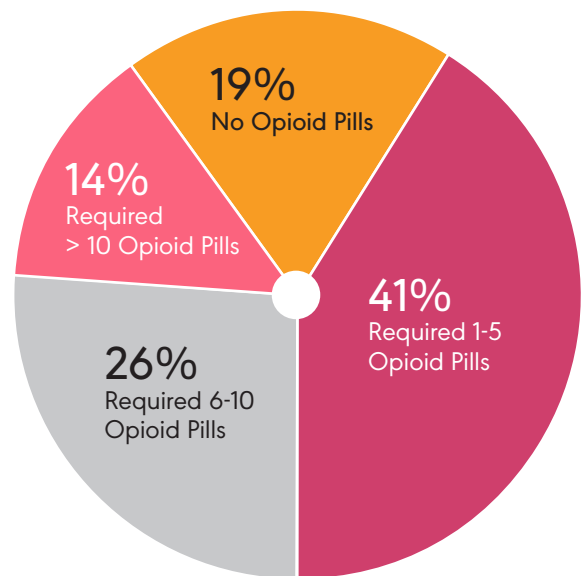
### RESULTS

- 86.3% of patients required 10 pills or less
- 18.9% of patients required no opioids at all
- 63.2% of patients were discharged the day of surgery
- 91.2% were discharged the first postoperative day

This novel multimodal approach with the ON-Q\* pain management system:

- Dramatically reduces narcotic needs
- Reduces formal physical therapy needs
- Decreases length of stay following TKA
- Increases patient satisfaction

**This study showed that, even with a rigorous multimodal approach, the addition of ON-Q\* can extend your non-narcotic postoperative pain management therapy to 72 hours which will result in better overall outcomes.**



Breakdown of opioid use among the TKA patients through 12 weeks

## OVERVIEW OF DR. WICKLINE'S MULTIMODAL PROTOCOL

- Pre-Operative Protocol:
  - Detailed education booklet
  - Required education class
  - Insistence on patient coach identification and participation
  - Early laboratory data to allow for patient optimization
- Pre-op therapy visit to explain post-op mobilization and safety issues
  - Surgical Procedure and Discharge Plan
  - General anesthesia based on anesthesiologist and patient preference
  - Patients received a cemented, computer navigated, posterior stabilized Stryker Triathlon knee
  - Periarticular block (40cc of bupivacaine, 30 mg of ketorolac, 10 mg of morphine)
  - Large reservoir ON-Q\* over filled to 550mL with ropivacaine started in the recovery room
  - Once home patients followed a home therapy protocol consisting of 40 minutes ice and elevation and 8 minutes of four simple exercises performed hourly for 2 weeks

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