

Supplementary Online Content

Mark J, Argentieri DM, Gutierrez CA, et al. Ultrarestrictive opioid prescription protocol for pain management after gynecologic and abdominal surgery. *JAMA Netw Open*. 2018;1(8):e185452. doi:10.1001/jamanetworkopen.2018.5452

eTable. Patient Characteristics and Outcome Measures

eFigure. Opioids Prescribed on Discharge

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Patient Characteristics and Outcome Measures

Patient Characteristics	Pre-UROPP (N = 626, 50%)	Post-UROPP (N = 627, 50%)	P Value
Number of Cases			.84
<i>Laparotomy</i>	146 (23.3%)	144 (23.0%)	
<i>Robotic/Laparoscopic</i>	279 (44.6%)	272 (43.4%)	
<i>Ambulatory</i>	201 (32.1%)	211 (33.6%)	
Mean Age (SD) (years)	55.5 (13.9)	56.2 (14.6)	.41
Race			.24
<i>Caucasian</i>	546 (87.2%)	547 (87.2%)	
<i>African American</i>	58 (9.3%)	46 (7.3%)	
<i>Asian</i>	8 (1.3%)	10 (1.6%)	
<i>Unknown</i>	14 (2.2%)	24 (3.8%)	
Mean BMI (SD)	33.1 (9.9)	33.0 (10.2)	.92
Smoking Status			.98
<i>Former</i>	146 (23.9%)	144 (23.6%)	
<i>Yes</i>	112 (18.4%)	114 (18.7%)	
<i>No</i>	352 (57.7%)	352 (57.7%)	
Mean Prior Abdominal Surgeries (SD)	1.1 (1.3)	1.2 (1.3)	.53
Diagnosis			.13
<i>Pre-invasive/Benign</i>	345 (55.1%)	372 (59.3%)	
<i>Malignant</i>	281 (44.9%)	255 (40.7%)	
Comprehensive Staging Performed			.25
<i>Yes</i>	114 (18.2%)	99 (15.8%)	
<i>No</i>	512 (81.8%)	528 (84.2%)	
Mean Length of Stay (SD) (days)	1.2 (1.4)	1.1 (1.5)	.49
Chronic Opioid Use			.05
<i>Yes</i>	45 (7.2%)	65 (10.4%)	
<i>No</i>	581 (92.8%)	562 (89.6%)	
Mean Number of Opioid Doses (Intravenous and Oral) During Admission (SD)	2.5 (4.5)	2.9 (5.2)	.16
Intraoperative Complications			1.00
<i>Yes</i>	2 (0.3%)	2 (0.3%)	
<i>No</i>	624 (99.7%)	625 (99.7%)	
Mean last pain score at time of discharge (SD)*	1.7 (2.4)	1.6 (2.4)	.41
Outcome Measures			
Mean postoperative pain score 2 weeks after discharge (SD)*	1.4 (2.3)	1.1 (2.2)	.11
Number of patients requesting opioid refill within 30 days after surgery (%)	104 (16.6)	105 (16.7)	.99
Postoperative Complications			.22

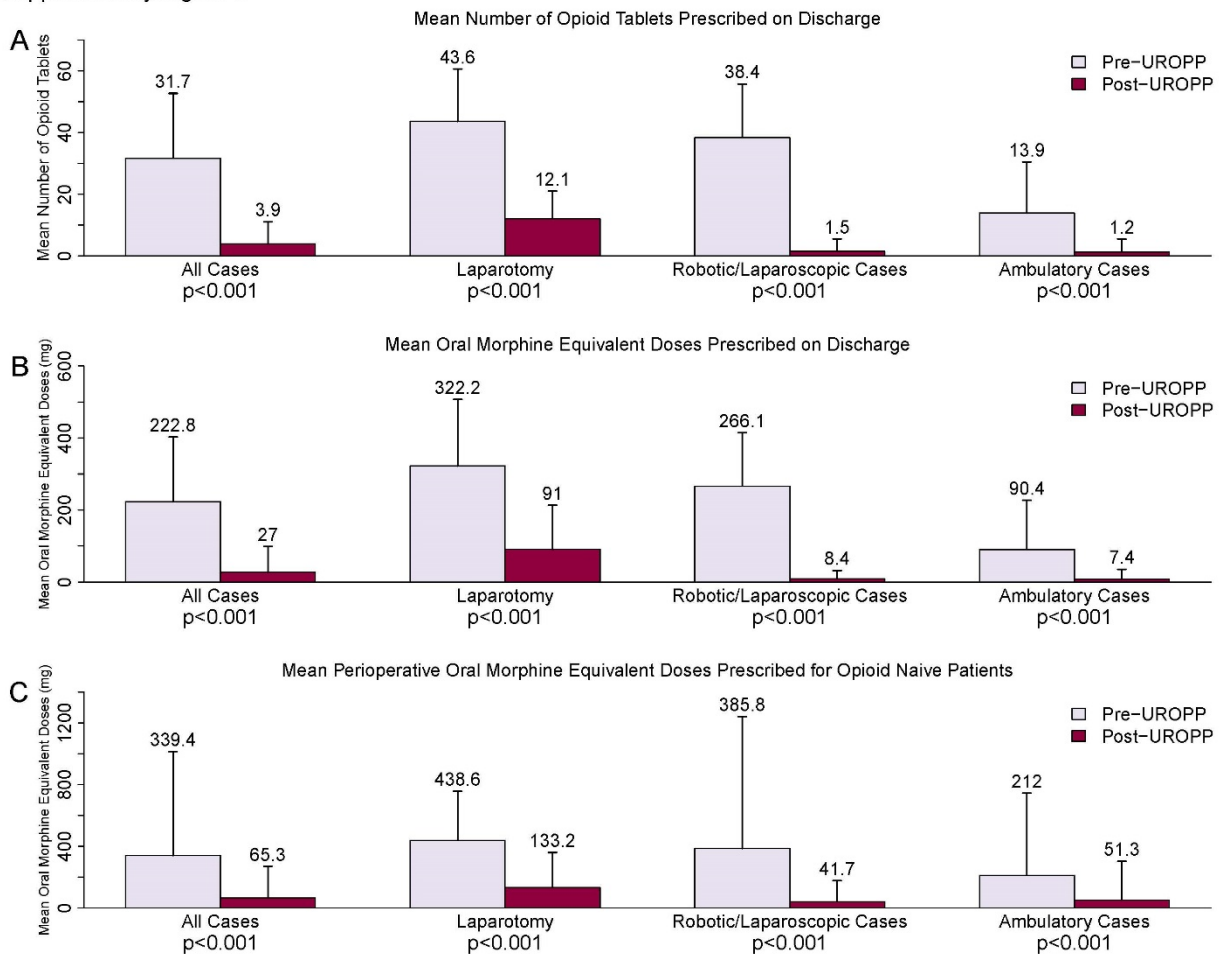
<i>Yes</i>	42 (6.7%)	32 (5.1%)	
<i>No</i>	582 (93.3%)	595 (94.9%)	

* Pain Score: 0-10 numbered rating, where 0 is no pain and 10 is worst possible pain.

Previously excluded 22 patients for protocol violations have been included in this table. Patients' baseline characteristics and outcome measures between Pre-UROPP and Post-UROPP cohorts were not statistically different with exception of more chronic opioid users in the Post-UROPP group ($P=.05$).

eFigure. Opioids Prescribed on Discharge

Supplementary Figure 1



Previously excluded 22 patients for protocol violations have been included in this table **A)** The mean number of opioid containing tablets prescribed on hospital discharge by case types before and after UROPP implementation. The implementation of the UROPP led to a statistically significant reduction in prescribed opioids in all case types ($P < .001$). **B)** Mean oral morphine equivalents (OME) prescribed before and after UROPP implementation in the different case types. **C)** Mean OME prescribed in the total perioperative period (includes 30 days before surgery, discharge, and 30 days after surgery). All pairwise comparisons showed significant ($P < .001$) reduction in dispensed post-UROPP OME. Error bars represent the standard deviation (SD).