



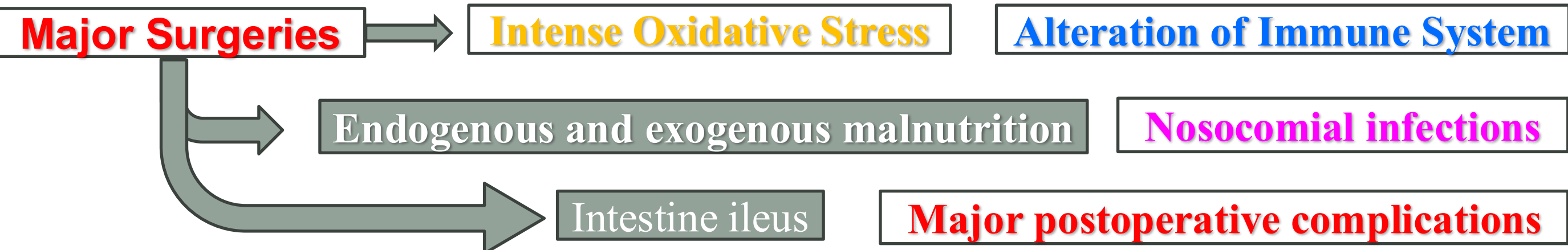
Immunonutrition and Albumin 20% reduce Postoperative Major Complications related to Cystectomy and Nephrectomy Oxidative Stress.

S.K. NDOKO¹, S. LASSOUANI¹, N. FRATTINI¹, L. BENZERTI¹, E. VANGALBEKE¹.
Territorial Hospital Group Grand Paris North-East, Hospital Center Robert Ballanger, Aulnay sous Bois, France.

Groupement Hospitalier de Territoire
Grand Paris Nord-Est
Aulnay-sous-Bois - Le Raincy-Montfermeil - Montreuil



PURPOSE / OBJECTIVES



Purpose: Dramatically reducing major postoperative complications

- After laparotomy for radical cystectomies and nephrectomies.
- Applying : **Immunonutrition** **Albumin 20%** **Physical Exercise**
Calory support **Iron**

MATERIAL & METHODS (Table 1)

Synergistic Perioperative Antioxidative Recovery Program	Historical Standard Cares	Program 1	Program 2
Immunonutriton.	None	1 cure Pre OR Post-operatively	2 cures Pre AND Post-operatively
Curative Albumin 20% infusion if minor or major complication.	None	Only Post-operatively	-
Physical Exercise by blowing bubbles in a special vial.	None	-	Pre AND post-operatively

Table 1: Content of combined recovery pathways for synergism compared for reduction of postoperative major complications following laparotomy for radical cystectomy and nephrectomy.

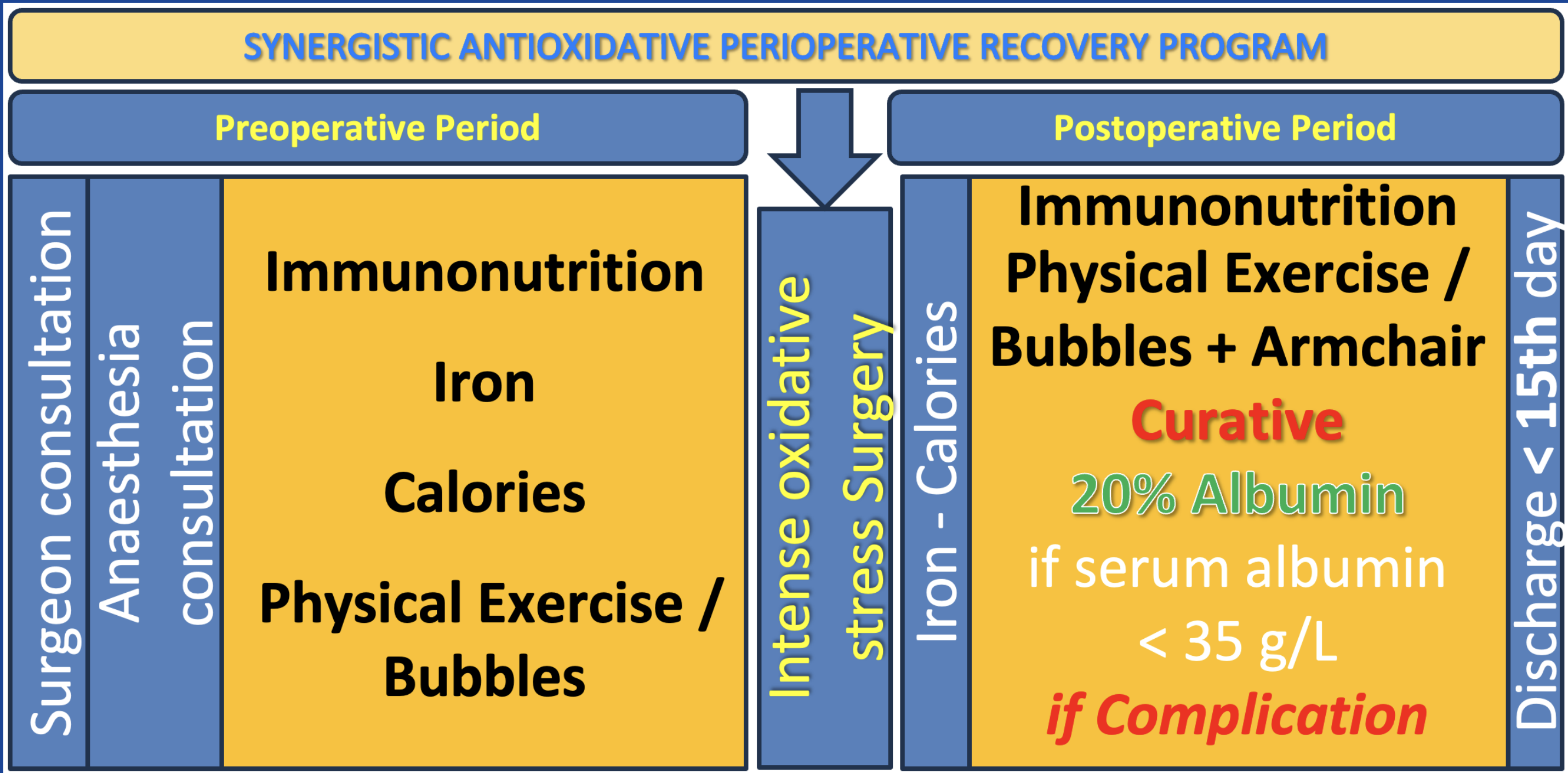
Multicenter, before-after study.

Primary outcome : Rate of major postoperative complications (Clavien-Dindo score ≥ 3).

Secondary outcomes : Postoperative lowest serum albumin rate, wound healing delay and others (Figure 3).

POSTOPERATIVE RECOVERY PATHWAYS SYNERGISM

Synergistic Antioxidative and Perioperative Recovery Program



Greatly Decrease

(Figure 1, Table 2, Figure 3)

Major Postoperative Complications
in patients undergoing Laparotomy for
Radical Cystectomy and Nephrectomy.

RESULTS

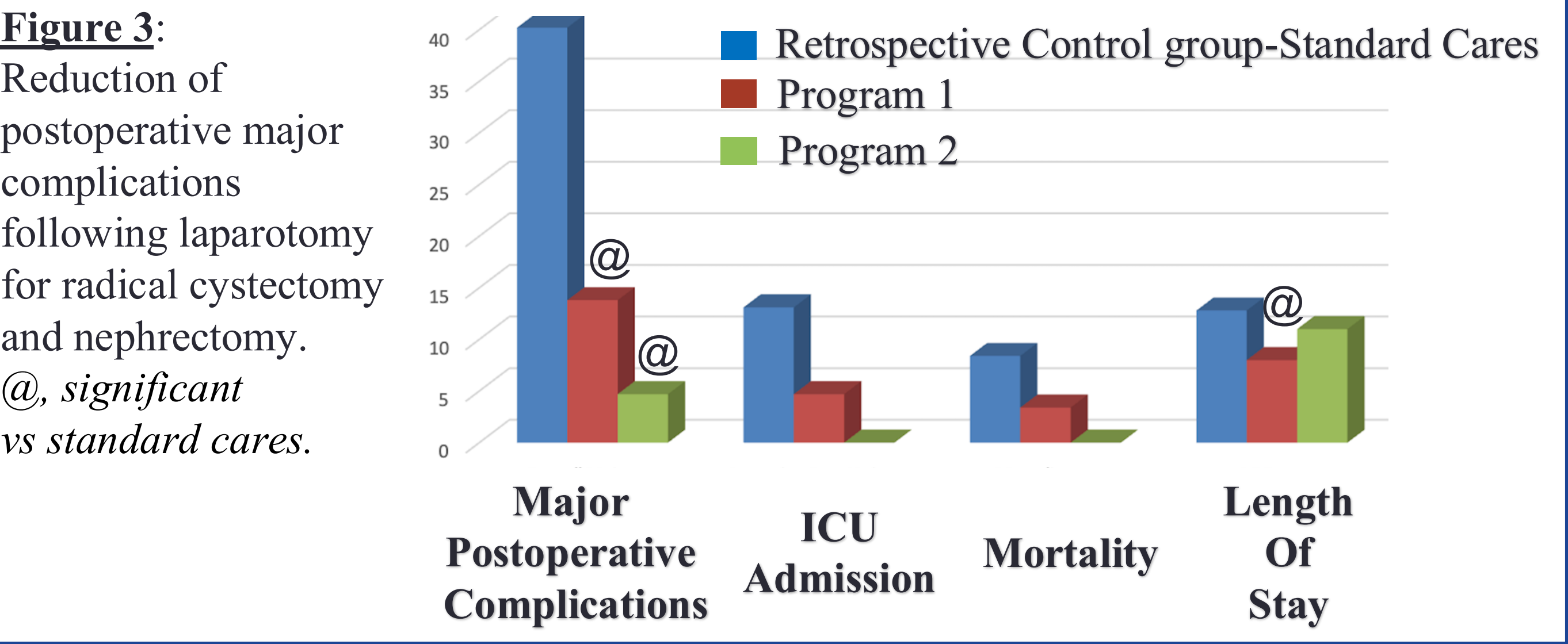
Figure 1:

Products used in the Recovery Program.



Outcomes	Retrospective N = 107	Program 1 N = 29	Program 2 N = 22
Primary outcome	43 (40.2)	4 (13.8) @	1 (4.7) @
Wound healing delay	15 (14)	4 (13.7)	11 (50) @@
Postoperative lowest serum albumin	-	24.2 $\pm$ 6.1	20 $\pm$ 5.0 @@

Table 2: Reduction of postoperative major complications following laparotomy for radical cystectomy and nephrectomy. @, significant vs standard cares; @@, vs Program 1.



SUMMARY / CONCLUSION

A strict compliance with a synergistic antioxidant perioperative recovery program based on immunonutrition in combination with other recovery pathways (albumin 20% infusion, iron homeostasis, calory support and physical exercise) can greatly decrease major postoperative complications incidence in patients undergoing laparotomy for radical cystectomy and nephrectomy.