Intervention	Radical Cystectomy (September 6th, 2017. Last update: January 11th, 2018)	Colorectal surgery (September 6th, 2017. Last update: January 11th, 2018)	Gyne. Oncology surgery (September 6th, 2017. Last update: January 11th, 2018)		
Pre-operative Components					
Documentation	Use of standardized ERAS order set.	Use of standardized ERAS order set	Use of standardized ERAS order set		
Education	Education started in surgeon office. Patient booklet given in surgeon office Education reinforced in pre-admission clinic. Pre admission visit for all ERAS patients	surgeon office	Education started in surgeon office. Patient booklet given in surgeon office  Education reinforced in/by pre-admission clinic. Pre admission visit for high risk ERAS patients		
Exercise	Described in patient booklet and reinforced in surgeon office and pre-admission clinic.	Described in patient booklet and reinforced in surgeon office and pre-admission clinic.	Described in patient booklet and reinforced in surgeon office and pre-admission clinic.		
Incentive spirometry	Described in patient booklet and given on POD 0	Described in patient booklet and given on POD 0	Described in patient booklet and given on POD 0		
Nutrition	Normal diet	Normal diet	Normal diet		
Carbohydrate loading	Clear liquid juice 500ml in evening and 250ml in the morning 1 hour before hospital check-in time	Clear liquid juice 500ml in evening and 250ml in the morning 1 hour before hospital check-in time	Clear liquid juice 500ml in evening and 250ml in the morning 1 hour before hospital check-in time		
Multimodal analgesia	Acetaminophen 975 mg PO 90 min pre-op	Acetaminophen 975 mg PO 90 min pre-op	Acetaminophen 975 mg PO 90 min pre-op		
Bowel prep	No/selective bowel prep. Oral anitibotics with mechanical bowel prep	No/selective bowel prep. Oral anitibotics with mechanical bowel prep	Not applicable		
Bowel motility	No	No	No		
VTE prophylaxis	Heparin 5000 units subcutaneous	Heparin 5000 units subcutaneous	Heparin 5000 units subcutaneous		
Antibiotic prophylaxis	Dosage based on BMI, completed within 60 min of surgical start time	Dosage based on BMI, completed within 60 min of surgical start time	Dosage based on BMI, completed within 60 min of surgical start time		
Glycemic control	Starting Sept 2017: Check HgA1C pre-op and refer to Endocrinology if >8.5	Starting Sept 2017: Check HgA1C pre-op and refer to Endocrinology if >8.5	Starting Sept 2017: Check HgA1C pre-op and refer to Endocrinology if >8.5		
	Glycometer in PCC, inform anesthesiologist if >8.0 mmol/L on non-diabetic patient or diabetic patient without Pre-printed Orders for Diabetic Patients : Elective Surgery	Glycometer in PCC, inform anesthesiologist if >8.0 mmol/L on non-diabetic patient or diabetic patient without Preprinted Orders for Diabetic Patients : Elective Surgery	Glycometer in PCC, inform anesthesiologist if >8.0 mmol/L on non- diabetic patient or diabetic patient without Pre-printed Orders for Diabetic Patients : Elective Surgery		
SSI bundle	Chlorhexidine wipes in the evening and in the morning in Perioperative Care Centre, and active pre-warming	Chlorohexidine wipes the night before and in the morning in the Perioperative Care Centre, and active pre-warming	Active pre-warming		

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Intra-operative Components						
Goal directed fluid therapy	Encourage for most procedures as cases are typically open & >3.5 hours, should be used in all ASA 3 patient with the arterial line to monitor SVV and SPV ( with GE Monitor) or SVV and CO with EV 1000 monitor.	Encouraged for patients with 2 of the followingopen procedure, >3.5 hours, extremes of BMI <18 and > 35, expected blood loss > 500 cc. Typically used in ASA 3 and greater pattient. Either arterial line with SVV and SPV (GE monitor) or non-invasive Clearsight or Massimo used	Encouraged for patients with 2 of the followingopen procedure, > 3.5 hours, extremes of BMI <13 and > 35, expected blood loss >500 cc. Typically used in ASA 3 and greater patients. Typically arterial line with SVV and SPV ( GE monitor) or non-invasive Clearsight or Massimo used			
	Typically still put in arterial lines in robotic cases due to limited a limited limite	If blood loss is expected to be less than 500 and/or ASA 1 or 2 patients then one can instead use zero balance fluid	If blood loss is expected to be less than 500 and/or ASA 1 or 2 patients then one can instead use zero balance fluid therapy ( expectation that fluids would be in the rate of 1.5-5 ml/kg/hr + EBL X2)			
Multimodal antiemetic prophylaxis	Apfel score minus # of multimodal antiemetic given ≤ 1. Commonly used agents: Dexamethasone, Ondanestron, Haloperidol, use of TIVA, use of maxeran or use of P6 stimulation	Apfel score minus # of multimodal antiemetic given ≤ 1. Commonly used agents: Dexamethasone, Ondanestron, Haloperidol or the use of TIVA	Apfel score minus # of multimodal antiemetic given ≤ 1. Commonly used agents: Dexamethasone, Ondanestron, Haloperidol or the use of TIVA			
Antibiotic redosing	For OR>3hrs +/-EBL >1.5L AND Cefazolin was given as prophylaxis abx	For OR>3hrs +/-EBL >1.5L AND Cefazolin was given as prophylaxis abx	For OR>3hrs +/-EBL >1.5L AND Cefazolin was given as prophylaxis abx			
Temperature control		Maintain normothermia ≥ 36 °C with forced air warming	Maintain normothermia ≥ 36 °C with forced air warming			
Epidural	All open cases will have either an epidural or rectus shealth catheters	For most open cases	For selected open cases			
Bilateral Rectus Sheath Catheters	All open cases will have either an epidural or rectus sheath catheter	Rarely inserted	BilateralSingle shot local anesthesia infiltration of the rectus sheath by the surgeon at the end of the procedure ( see LA by surgeon on nursing OR sheet)			
		Either ≥2 of the following interventions given intra-op OR >1 of the following plus pre-op Acetaminophen PO	Either ≥2 of the following interventions given intra-op OR >1 of the following plus pre-op Acetaminophen PO			
	Primary techniques: Epidural catheter or Bilateral rectus sheath catheters inserted by surgeon at the end of the procedure	Primary techniques: epidural or lidocaine infusion	Primary techniques: lidocaine infusion vs epidural			
		Additional adjuncts:	Additional adjuncts:			
Multimodal analgesia	Ketamine either single dose ( 0.25-0.5mg/kg) and +/- infusion 0.1 to 0.25 mg/kg/hr)	Ketamine either single dose ( 0.25-0.5mg/kg) and +/- infusion 0.1 to 0.25 mg/kg/hr)	Ketamine either single dose ( 0.25-0.5mg/kg) and +/- infusion 0.1 to 0.25 mg/kg/hr)			
		Lidocaine infusion 2 mg/kg/hr., based on ideal body weight, if no epidural	Lidocaine infusion 2 mg/kg/hr., based on ideal body weight, if no epidural			
	Ketorolac 15-30 mg	Ketorolac 15-30 mg	Ketorolac 15-30 mg			

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	Dexmedetomidine infusion 0.2-0.7 ug/kg/hr for selected	Dexmedetomidine infusion 0.2-0.7 ug/kg/hr for selected	Dexmedetomidine infusion 0.2-0.7 ug/kg/hr for selected patients
	patients	patients	
	Rarely Magnesium sulfate infusion 30-50mg/kg (2.5mg) post	Rarely Magnesium sulfate infusion 30-50mg/kg post	Rarely Magnesium sulfate infusion 30-50mg/kg post induction and
	induction and/or 8-10mg/kg/hr	induction and 8-10mg/kg/hr	8-10mg/kg/hr
Glycemic control	Maintain normoglycemia. Insulin IV/sc for glucose > 10.	Maintain normoglycemia. Insulin IV/sc for glucose >10.	Maintain normoglycemia. Insulin IV/sc for glucose > 10.
	Glucometers every 2 hours if HbA1C > 6.0	Glucometers every 2 hours if HbA1C > 6.0.	Glucometers every 2 hours if HbA1C > 6.0

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Post-op components					
Documentation	daily milestones	Use of standardized ERAS order set and clinical pathway with daily milestones	Use of standardized ERAS order set and clinical pathway with daily milestones		
Diet	· · · · · · · · · · · · · · · · · · ·	POD 0: Full fluid diet. POD 1 & onwards: Full fluid diet to Post-surgical Transition Diet to DAT as tolerated with Boost Plus Tetra BID.	POD 0: Full fluid die to Post-surgical Transition diet to diet as tolerated. Boost Plus Tetra BID for selected cases.		
Activity	POD 0: Out of bed. Starting POD 1: Up for 3 meals and walk X 2 daily	POD 0: Out of bed. Starting POD 1: Up for 3 meals and walk X 2 daily	POD 0: Out of bed. Starting POD 1: Up for 3 meals and walk X 2 daily		
Multimodal analgesia	Acetaminonnen ()  ) P() +/- enidiiral catheter/rectiis sheath	Acetaminophen QID PO +/- epidural catheter/Patient control analgesia	Acetaminophen QID PO +/- Patient control analgesia		
PONV treatment	Ondansetron 4 mg IV/PO Q8H x 3 doses	Ondansetron 4 mg IV/PO Q8H x 3 doses	Ondansetron 4 mg IV/PO Q8H x 3 doses		
IV fluid management	D5 1/2 NS and salline lock POD 4 when unless pt is not drinking well (i.e. $< 600$ mL/12hr)	D5 1/2 NS and salline lock POD 1 when unless pt is drinking >600mL/12hr	D5 1/2 NS and salline lock POD 1 when unless pt is drinking >600mL/12hr		
Bowel motility	Gum chewing 15 mins TID	Gum chewing 15 mins TID	Gum chewing 15 mins TID		
Tubes/drains	Avoidance of prophylactic NGT and drains	Avoidance of prophylactic NGT and drains	Not applicable		
Glycemic control	Maintain normoglycemia < 8.1	Maintain normoglycemia < 8.1	Maintain normoglycemia < 8.1		
SSI bundle	Leave dressings to primary closed wounds until POD #3. Change if saturated	Leave dressings to primary closed wounds until POD #3. Change if saturated.	Leave dressings to primary closed wounds until POD #2. Change if saturated.		
Discharge criteria					
	Independent with ADLs	Independent with ADLs	Independent with ADLs		
	Pain managed on oral analgesics	Pain managed on oral analgesics	Pain managed on oral analgesics		
	Tolerating regular diet	Tolerating regular diet	Tolerating regular diet		
	Passing gas OR has had a bowel movement	Passing gas OR has had a bowel movement	Passing gas OR has had a bowel movement		
	Able to self manage ostomy and irrigate pouch if required	Able to self manage ostomy (if applicable)			