Time	Fast track treatment	Conventional treatment
Preadmission	-Psychological optimism	-No psychological optimism
(After randomization)	-Pre-assessment for risk adjustment	-Pre-assessment for risk adjustment
	-Anesthesiologic information of combined anesthesia consisting of thoracic epidural and general anesthesia	-No Anesthesiologic information of general anesthesia
	-Information of the fast track treatment and the informed consent	-Information of the conventional treatment and the informed consent
	-Guided tour of fast track wards	-No tour
	-Operation schedule	-Operation schedule
Preoperation	-Bowel preparation: semiliquid diet 1days before operation	-Bowel preparation: liquid diet 1-2days before operation
	- Enemas:	-Enemas:
	Polyethylene Glycol-Electrolyte Powder ® (Hengkang Zhengqing TM , Jiangxi Hygecon Pharmacy CO.,Ltd, Shangrao, CN) the afternoon before surgery,2 boxes mixing with 2000ml warm drinking water	Polyethylene Glycol-Electrolyte Powder ® the afternoon before surgery, 2 boxes mixing with 2000ml warm drinking water
	-Fasting: last meal 2h before operation	-Fasting: last meal 10h before operation
	-Complete Enteral Nutritional Emulsion Supportan (TPF-T) ® (Supportan TM , Sino-Swed Pharmaceutical CO. Ltd, Wuxi, CN) 600ml or Fresubin Diabetes (TPF-D) ® (Fresubin Diabetes TM , Sino-Swed Pharmaceutical CO. Ltd, Wuxi, CN) 500ml (especially for patients with diabetes mellitus) p.o. 8h before operation	- No oral intake in the operation day
	- 10% Glucose 400ml p.o. 2-3h before operation	- No oral intake in the operation day
	- Nasogastric tube 0.5h before operation for Gastrointestinal decompression	- Nasogastric tube 0.5h before operation for Gastrointestinal decompression
Intraoperation		
-Anesthetic management	 Placement of epidural catheter (T6-L1), depending on the surgical resection); test-dose (3 ml of 2% lidocaine (HefengTM, Harvest Pharmaceutical CO. Ltd, Shanghai, CN)) followed by continuous infusion (10 ml of 0.5% or 0.75% ropivacaine (NaropinTM, APP Pharmaceuticals, LLC., Schaumburg, IL) according to the age and size of the patient before surgical incision 	- No thoracic epidural anesthesia
	 Balanced Combination with general anesthesia: intravenous midazolam (LiyuexiTM, Nhwa Pharmaceutical Co., Ltd., Xuzhou, CN) (0.1 mg/kg), target-controlled infusion (TCI) of propofol (DiprivanTM, AstraZeneca Pharmaceutical Co., Ltd., Shanghai, CN) (4-8 µg/ml), sufentanil (FukangTM, Humanwell Pharmaceutical Co., Ltd., Yichang, CN) (0.5-1µg/mg), rocuronium (EsmeronTM, Organon Teknika B.V., Oss, NL) (0.6-0.9mg/kg). The patients were ventilated mechanically. Anesthesia was maintained propofol TCI (2-4 µg/ml), remifentanil (0.02-0.03µg/kg/min) and intermittent boluses of rocuronium. 	 Normal General anesthesia: intravenous midazolam (0.1 mg/kg), target-controlled infusion (TCI) of propofol (4-8 μg/ml), sufentanil (0.5-1μg/mg), rocuronium (0.6-0.9mg/kg). The patients were ventilated mechanically. Anesthesia was maintained propofol TCI (2-4 μg/ml), remifentanil (RuijieTM, Humanwell Pharmaceutical Co., Ltd., Yichang, CN) (0.02-0.03μg/kg/min) and intermittent boluses of rocuronium. As equally depth of anesthesia is also needed in conventional treatment group with no thoracic epidural anesthesia, more drug dosage of general

Table1. Checklist of fast track and conventional perioperative operation treatments

anesthesia is used.

	- Morphia as little as possible	- No restriction of Morphia use
	 Monitoring: (Datex OhmedaTM S/5 Anesthesia Monitor (Datex-Ohmeda Division, Instrumentarium Corp., Helsinki, Finland)) consists of electrocardiogram (ECG), heart rate (HR), respiratory rate, arterial pressure (BP), SpO2, end-tidal CO2 (etCO2), and bispectral index (BIS). The target concentration of propofol: keep BIS between 40 and 60 to maintain adequate hypnosis. Perioperative hypotension: systolic blood pressure (SBP) < 80 mmHg or a decrease of 30% baseline value and was treated with reduction of anesthetics, fluid supplement, and a bolus dose of ephedrine (MahuangsuTM, Northeast Pharmaceutical Co., Ltd., Shenyang, CN) (10mg, IV). If SBP was above 160 mmHg or increase >30%, an increase of propofol or remifentanil infusion was given to deepen anesthesia. 	- Monitoring: the same as fast-track group
-Antibiotic prophylaxis	- Yes,	- Yes
-Surgical management	-Laparoscopic/open surgery as randomization	-Laparoscopic/open surgery as randomization
- Warming	- Yes, body warming by thickening quilt as well as intravenous fluid warming	- No body and intravenous fluid warming
- Drains	- Minimal use and early removal of abdominal drains	-Regularly use and removal of abdominal drains
- Fluid infusion	- Totally \leq 1500ml during operation	- No restriction
Postoperation		
- Pain management	-Patient-controlled continuous epidural analgesia with a 5ml/h continuous infusion of 0.15% ropivacaine and a bolus dose of 2.5ml (locktime 15min) until 48h after operation, paracetamol (Tylenol TM , Johnson & Johnson Pharmaceutical Co., Ltd., Shanghai, CN) p.o. when needed	 -Patient-controlled intravenous analgesia with a 4ug/h continuous infusion of sufentanil and a bolus dose of 1.5ug (locktime 15min) -Bucinperazine (QiangtongdingTM, Northeast Pharmaceutical Co., Ltd., Shenyang, CN) or Morphine (MafeiTM, Northeast Pharmaceutical Co., Ltd., Shenyang, CN) intramuscular injection when patient-controlled intravenous analgesia isn't enough for pain control
- Diet	- Chewing gum 1 piece tid p.o.	-No chewing gum
	- At least 10% Glucose 200ml p.o. within 24h after operation	- Fasting until flatus
	-Liquid diet and Enteral Nutritional Emulsion Supportan 200ml or Fresubin Diabetes 300ml (especially for patients with diabetes mellitus) p.o. the next day of operation	- Liquid diet after flatus
	- Diet rehabilitation as early as possible (dose increase of Enteral Nutritional Emulsion or when needed)	- Normal diet after defecation
- Intravenous fluid infusion	- Stop intravenous high energy fluid infusion after dosage of Enteral Nutritional Emulsion Supportan ≥ 600ml or Enteral Nutritional Emulsion Fresubin Diabetes ≥ 500ml	- Intravenous high energy fluid infusion on daily basis and continuing until adequate oral intake

	 No intravenous High-energy Nutrient Fluid after 72h post-surgery 	
	- Restricting and avoiding excessive intravenous fluid infusion, keeping body weight as pre-surgery	
- Energy	- Keep the total energy intake (both diet and intravenous fluid infusion) 25-30kcal/kg/day	- Keep the total energy intake (both diet and intravenous fluid infusion) 25-30kcal/kg/day
- Nasogastric tube and urethral catheter	-Remove nasogastric tube as soon as the end of operation	- Remove nasogastric tube after 1st flatus postoperation
	- Remove urethral catheter within 24-48h after operation	-Remove urethral catheter when 1^{st} time meet: patient have the feeling of automatic micturition and \geq 200ml after valving-on urethral catheter
- Ambulation	- Forced ambulation within 24h post-surgery, no time restriction	- No ambulation scheme
	- Ambulation time \geq 1h per day, and increasing day by day	
	- Patients walking to weight themselves every day	
Adjuvant chemotherapy	- Xelox	- mFolfox6
	- repeat every 3 weeks for 8 cycles	- repeat every 2 weeks for 12 cycles
	repeat every 3 weeks for 8 cyclesRegimen	repeat every 2 weeks for 12 cyclesRegimen
	 repeat every 3 weeks for 8 cycles Regimen Oxaliplatin 130 mg/ m2 day 1, Capecitabine (XelodaTM) 850-1000 mg/ m2 twice daily for 14 days 	 repeat every 2 weeks for 12 cycles Regimen Oxaliplatin (EloxatinTM) 85 mg/m2 IV over 2 hours, day 1 Leucovorin (TongaoTM) 400 mg/ m2 IV over 2 hours, day 1 5-FU (JinyaoTM) 400 mg/ m2 IV bolus on day 1, then 1200 mg/ m2 /day x 2 days (total 2400 mg/m2 over 46-48 hours) continuous infusion
	 repeat every 3 weeks for 8 cycles Regimen Oxaliplatin 130 mg/ m2 day 1, Capecitabine (XelodaTM) 850-1000 mg/ m2 twice daily for 14 days No peripherally inserted central catheter (PICC) 	 repeat every 2 weeks for 12 cycles Regimen Oxaliplatin (EloxatinTM) 85 mg/m2 IV over 2 hours, day 1 Leucovorin (TongaoTM) 400 mg/ m2 IV over 2 hours, day 1 5-FU (JinyaoTM) 400 mg/ m2 IV bolus on day 1, then 1200 mg/ m2 /day x 2 days (total 2400 mg/m2 over 46-48 hours) continuous infusion Peripherally inserted central catheter and care of PICC in outpatient clinic every week
	 repeat every 3 weeks for 8 cycles Regimen Oxaliplatin 130 mg/ m2 day 1, Capecitabine (XelodaTM) 850-1000 mg/ m2 twice daily for 14 days No peripherally inserted central catheter (PICC) Hospitalization no more than 24h each cycle 	 repeat every 2 weeks for 12 cycles Regimen Oxaliplatin (EloxatinTM) 85 mg/m2 IV over 2 hours, day 1 Leucovorin (TongaoTM) 400 mg/ m2 IV over 2 hours, day 1 5-FU (JinyaoTM) 400 mg/ m2 IV bolus on day 1, then 1200 mg/ m2 /day x 2 days (total 2400 mg/m2 over 46-48 hours) continuous infusion Peripherally inserted central catheter and care of PICC in outpatient clinic every week Hospitalization for 3 days each cycle