

# One Day Surgery Times

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## Development of Outpatient excellent (3-4). Laparoscopic Surgery in Hong Kong

Chok Siu Ho Kenneth, Lau Hung, Yuen Wai Key. Department of Surgery, The University of Hong Kong, Queen Mary and Tung Wah Hospitals, Hong Kong, China.

Continued.....

In addition to clinical observation, patients were considered eligible for discharge when

they fulfilled a set of pre-discharge criteria (Table 2). A 24-hour hotline was provided before discharge. A dedicated nursing staff would perform phone questionnaire on postoperative days one and three. The operating surgeon would follow all the patients at DSC at postoperative weeks one and four.

### Standard anaesthetic protocol and postoperative pain management:

Postoperative nausea and vomiting was a common problem leading to failure in outpatient laparoscopic procedures. We adopted a standard anaesthetic protocol in performing the operations. Anaesthesia was induced using intravenous propofol and fentanyl at the body-mass-dependent dose. Following an endotracheal intubation, all patients were put on mechanical ventilation and on inhalational anaesthetic agents (nitric oxide and isoflurane) for maintenance. Before reversal of the anaesthesia, all of them would be given intravenous metoclopramide as the antiemetics. Another dose of metoclopramide or ondansetron would be given when necessary after the procedure if they developed repeated vomiting. Opiate- free anaesthetic protocol, involvement of an experienced anaesthesiologist and good communication between the anaesthesiologist and the operating surgeon (so as to reduce inhalational anaesthetic gas at the end of operation earlier) would be the keys to the avoidance of postoperative nausea and vomiting.

At the end of the operation, all port-sites would be infiltrated with 2-3 ml of 0.25% bupivacaine. After the operation, all patients were given adequate oral DologesicÒ (Llorens Pharmaceuticals, Miami, FL, USA) 1 tablet every 6 hours and diclofenac (Voltaren SRÒ; Novartis Pharmaceuticals, Basel, Switzerland) 100 mg tablet daily when necessary. Pain control based on the above regimen was

TABLE 1. Outcomes of outpatient laparoscopic cholecystectomy (LC) over a five-year period:

	2000	2001	2002	2003	2004 (till May)
Total	11	28	30	45	21
Outpatient LC	8 (72.7)	25 (89)	27 (90)	44 (97.9	21 (100)
Overnight LC	2(18)	2 (7.1)	2 (6.7)	1 (2.2)	0 (0)
Conversions	1 (9.1)	1 (3.6)	1 (3.3)	0 (0)	0 (0)
Readmission	1 (3.6)	1 (3.6)	0 (0)	0 (0)	0 (0)

<sup>\*</sup> Data are expressed as number with percentage in parentheses.

#### **TABLE 2.** Discharge criteria:

	Score *
Vital signs:	
Within 20% of pre-op value	2
Between 20-40% of pre-op value	1
> 40% or < 40% of pre-op value	0
Ambulation and mental status:	
Oriented AND gait steady	2
Oriented OR gait steady	1
Neither	0
Pain, nausea or vomiting:	
Minimal	2
Moderate	1
Severe	0
Surgical bleeding:	
Minimal	2
Moderate	1
Severe	0
Intake and output:	
Has had PO fluid AND voided	2
Has had PO fluid OR voided	1
Neither	0

<sup>\*</sup>To be eligible for discharge, the patient must achieve a score of <sup>3</sup> 8. Pre-op = preoperative; PO = per-oral.

### **OUTPATIENT ENDOSCOPIC TOTALLY EXTRAPERITONEAL INGUINAL HERNIOPLASTY (TEP):**

TEP was first performed in 1999 at our institution. With an experience of 200 in-patient TEPs, outpatient TEP has been performed since 2001. Between March 2001 and 2003, patients who underwent outpatient TEP by a single surgeon (HL) at our

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department were recruited. Inclusion criteria were reducibility of the All TEPd were successfully performed without conversion. The mean inguinal hernia, ASA risk classification of I or II, as well as the operation time for TEP ( $50 \pm 13.2$  min) was significantly shorter than presence of a competent adult to accompany the patient home that for open repair (58  $\pm$  17.6 min) (P < 0.001). The pain score at and look after the patient for 24 hours. In addition, patients had to rest was significantly lower in the TEP group than in the open group. live within one hour's travel to the hospital. Previous lower On average, the patients returned to work 8.6 days after TEP and 14 abdominal surgery was considered a contraindication for TEP.

All patients were admitted to DSC on the day of operation. Pre-than that after open surgery (21.7%) (P = 0.032). emptive ketorolac 30 mg was administered intravenously upon induction of general anaesthesia. The standard anaesthetic In conclusion, outpatient TEP was superior to open Lichtenstein protocol and the anaesthetic team were the same as described in hernioplasty for repair of primary inguinal hernia in male patients. outpatient LC. The operative details were described elsewhere (6). The benefits of outpatient TEP included less pain, a faster return to A three-port technique was employed. Balloon dissection and work, and a lower incidence of chronic groin pain (7). urinary catheter were not utilized. The extraperitoneal space was dissected and created using endoscissors with diathermy. A FUTURE DIRECTIONS: Prolene mesh of 10 x 14 cm2 (Ethicon, Inc., Somerville, NJ, USA) was placed to cover the deep inguinal ring, the posterior wall of the Despite the early success in outpatient LC, striving for a higher inguinal canal, and the femoral ring. Wounds were infiltrated with standard of patient care is still the ultimate goal for surgeons. 0.5% bupivacaine as in outpatient LC.

**Results:** 

A total of 417 patients underwent TEP during the study period. One for simple and uncomplicated gallstone diseases, low-pressure hundred and two patients (24.5%) with 114 inguinal hernias, who pneumoperitoneum was safe and effective with similar outcomes underwent TEP as an outpatient procedure, were recruited. All TEPs when compared with diseases treated under standard-pressure were successfully performed. None of the patients required pneumoperitoneum (8). conversion. The successful rate was 97%. Three patients were admitted overnight because of ECG changes during surgery and It is not uncommon for patients with groin hernias to have significant dizziness. One patient required readmission to hospital on co-morbidities, which are considered a relative contraindication postoperative day one because of wound pain and vomiting, for TEP because it needs to be performed under general Overall, the rate of postoperative nausea and vomiting was very anaesthesia. The early result of these patients undergoing TEP under low. Only mild postoperative complications such as: seroma and spinal anaesthesia was released from our department. Four bruising, were encountered, but they were all self-limiting. No patients successfully underwent TEP under spinal anaesthesia. Two recurrence was noted at a mean follow-up of 5 months (2).

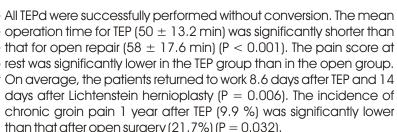
and postoperative pain management as well as the PAC have experienced laparoscopic surgeon was the pre-requisite for a been previously discussed. In addition, a randomized trial was successful procedure. Nonetheless, good cooperation among the conducted to compare the outcomes of outpatient TEP with anaesthesiologist, surgeon and patient cannot be overlooked (9). It outpatient open Lichtenstein hernioplasty.

Comparison with outpatient Lichtenstein hernioplasty in male patients: From 2002 to 2004, a total of 200 male patients were randomized to undergo either outpatient unilateral TEP or open Lichtenstein hernioplasty under general anaesthesia.

Surgery & discharge on same day for: Hernia, Piles, Fistula, Fissure, Diabetic foot, Pilonidal sinus, Ingrown toe nail, Lipoma, Sebaceous cyst, Abscess, Circumsician, Vasectomy, D & C, Tubal

Ligation, Diagnostic Lap; etc. (In selected cases) Extended stay: Appendix, Gall stones, Hystrectomy, etc.

Other Surgeries related to: Paediatric, Urology, Plastic, ENT, Vascular. Chemotherapy & related treatment. (Please take prior appointment)



Recently, a randomized trial was conducted at our department to compare low-pressure (7 mmHg) versus standard-pressure pneumoperitoneum (12 mmHg) in outpatient LC. It was shown that

patients required conversion to open repair because of lack of cooperation and inadequate spinal anaesthesia. No significant The important roles of DSC, a standardized anaesthetic protocol complication was encountered. To shorten the operation time, an provided an alternative choice other than open repair for patients with significant co-morbidities.

To be continued.....

# One Day Surgery Center

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