

Post-Operative Care Service in TKOH One-Stop Nurse-Led Discharge Programme



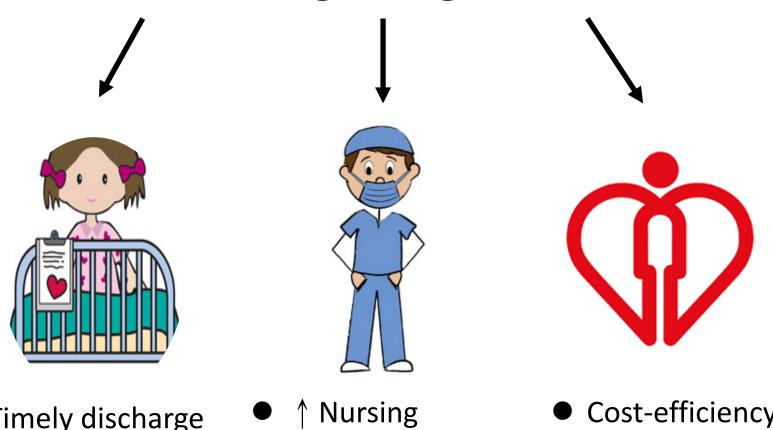
APN Lo Yim Chi TKOH A&OT 07 May 2018



TKOH Operating Theatre



Objectives of the One-Stop Nurse-led Discharge Programme



Timely discharge

Professionalism

Cost-efficiency

One-Stop Nurse-led Discharge (NLD) Programme



Phase I Recovery (PACU)



Phase II Recovery (ASC)





Phase I Recovery in PACU



NLD Nurse Competencies

Over 2 years OT experience including PACU or Certificate holder of PRCC of Anae & RR Nursing

And

Completion of NLD Training Program

Passed Competency
Assessment

Patient Exclusion criteria

Intra-operative Blood Nasal and Throat loss > 300ml or 10% of surgery **Blood volume Total Joint Replacement Epidural anesthesia** infusion surgery **Duration of anesthesia Peripheral Nerve** Catheter infusion > 3 hours

PACU Discharge Scoring System

*1. Consciousness	5. Pain (rest)
*2. Breathing	6. Nausea and Vomiting
*3. Oxygen Saturation	7. Surgical Bleeding
*4. Circulation	8. Temperature

Remark: * = Mandatory Criteria

Ref: Ead, H. (2006). From Aldrete to PADSS: Reviewing Discharge Criteria after Ambulatory Surgery. Journal of Peri-Anesthesia Nursing Vol. 21, No. 4 (August) 259-267

PACU Discharge Scoring System

	Variable	Score	Criteria
5	Pain (rest)	2 1 0	None or minimal; or well controlled by Rx (pain score ≤ 4/10) Moderate (pain score 5-7/10) Severe or unacceptable (pain score 8-10/10)**
6	Nausea and Vomiting	2 1 0	None or minimal; or well controlled by Rx Moderate Severe; persistent despite treatment**
7	Surgical Bleeding	2 1 0	None or minimal (no dressing change is required) Moderate (up to 2 dressing changes are required) Severe (more than 3 dressing changes are required; or new drain output >300ml)**
8	Temperature	2 1 0	Return to pre-operative baseline (and > 36° C) Not returned to pre-operative baseline (but within $35.5-38.5^{\circ}$ C) <35.5°C or > 38.5° C**

Remark: *= Mandatory Criteria **= Zero score

Patient Discharge Criteria:

- Two consecutive sets of scoring with ≥ 15/16 and full score in Mandatory Criteria
- Stay in PACU ≥ 30 minutes
- Over 15 mins stay after last dose of Opioid
- For SA patient, regression block return to L1 myotome or dermatome

Unfulfilled Discharge Criteria:

Patient have Zero score in any of the assessment items.

or

Patient stay in PACU >90 mins and do not fulfill the discharge criteria.

Inform Anesthetists if any doubt in assessing or managing the patient.



Phase II Recovery in ASC



Criteria for Day discharge:

Tseung Kwan O Hospital Ambulatory Surgery Centre Nurse-led Discharge of Day Surgery Patient Pre-discharge Assessment Form					ffix patient's label here					
Pos	Post-anaesthesia advice from anaesthetist: Patient to be discharged home by \[\sqrt{Nurse} \] Anaesthetist							tist		
Nar	Name of Anaesthetist: Sign :									
Ope	Operation date:									
Dia	Diagnosis:									
One	Operation:									
•										
	Arrival time at Phase 2 Recovery:									
			MAC / others_							
Air	way Manage	ement: *ETT	/ LMA / Facen	nask / Natur	al / Other	s				
	Criteria for Same Day Discharge									
1.	Patient has ≥ 2 hours rest at Phase 2 recovery.							[o		
2.	Patient is conscious and alert						☐ Yes	□N	o o	
3.	Patient has ≥ 9 scores of the Modified Post-anaesthesia Discharge Scoring System (MPADSS) ¹ with SBP within 90-180 mmHg , details as follows:									
	•	PADSS)1 with Ambulation	SBP within 90 Nausea	0-180 mmHş Pain	g , detail Surgical		follows:	☐ Yes		6
	v itai sigiis	Ambulauon	vomiting	raiii	bleeding		score		"	Ĭ
	0/1/2	0/1/2	0/1/2	0/1/2	0/1/2	2				
4.	•	after spinal ar						☐ Yes	□ No	
							NA			
5.	For patient after urogenital ² surgery / pelvic or rectal surgery ³ / has history of Yes No									
	urinary retention / intra-op catheterization: Patient has urinated after surgery.					NA				
6.				nanal insuff	ioionau / a		lained of	☐ Yes	□ No	П
0.	For patient who has history of diabetes/ renal insufficiency / complained of PONV in Recovery Room / resides at a long distance from TKOH:					NO	NA			
	Patient can tolerated oral fluid after surgery.						***			
7.							lo			
8.	Patient has carer(s) for the first 24 hours after surgery.					☐ Yes	☐ No			
9.	Patient has information to seek help in case of emergency.					☐ Yes	☐ No			
10.	Other criteria: Yes N				ío					

- Conscious and alert
- Over 2 hours rest in ASC
- Urinated after surgery
- Tolerated oral fluid after surgery
- ➤ For SA → Lower Limbs power and sensation fully recovered
- Responsible person escort home and take care for the post-op first 24 hours

Modified Post-anaesthesia Discharge Scoring System

Patient has ≥ 9 scores of the Modified Post-anaesthesia Discharge Scoring

System with SBP within 90-180 mmHg, details as follows:

Vital signs	Ambulation	Nausea Pain vomiting		Surgical bleeding	Total score
0/1/2	0/1/2	0/1/2	0/1/2	0/1/2	

- Vital signs within 20% of preoperative value
- Must be able to ambulate
- Minimal nausea and vomiting prior to discharge
- Tolerated pain prior to discharge
- Postoperative bleeding should be consistent with expected blood loss

Discharge pamphlet

Ambulatory Surgery Centre Service Hour:

Monday to Friday 8am-8pm;

Saturday, Sunday & Public holiday: Closed.

Enquiry / Emergency Arrangement

Should you have any enquiry, please contact the Ambulatory Surgery Centre: Tel: 22080700



During the non-office hours, you may contact:

Female Tel: 22081107

Male Tel: 22081125

Please seek medical advice at the Accident and Emergency Department nearby if the following conditions occurred:

- Severe wound bleeding
- Severe pain / dizziness not relieved by the prescribed medications
- Wound looks red, swollen or inflamed
- Unpleasant smell or discharge from the wound
- ♦ Persistent fever (body temperature over 38 °C)
- Persistent vomiting

 $Discharge\ education\ /\ SUR\ /\ General\ Surgery\ /\ General\ Surgery\ (English\ version)\ /\ last\ updated\ 05/2014$



Ambulatory Surgery Centre

Discharge Instructions
For General Surgery



Phone Follow up by ASC Nurse

(The next working day after operation)



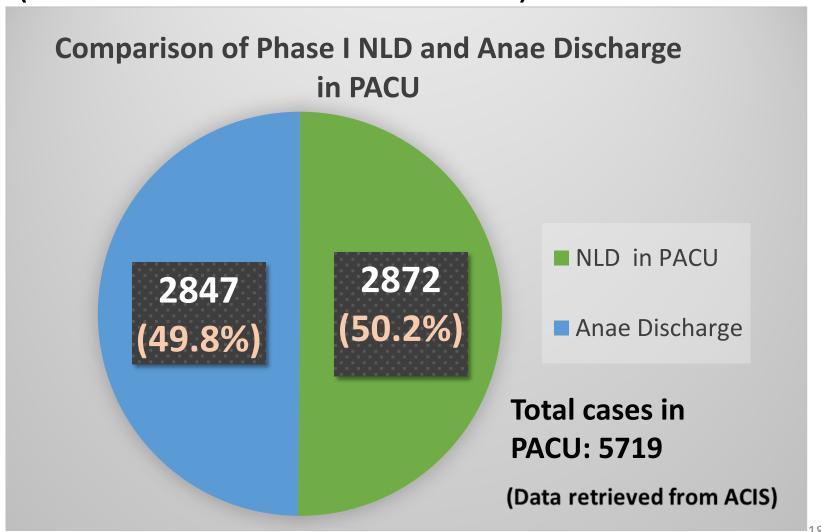
Tseung Kwan O Hospital <u>Peri-op Care Nurse Clinic (PCNC)</u> 1st PHONE FOLLOW UP (For Day Surgery)							
	(The next working day after operation)						
Date of Phone Follow	-up Assessor: Rank/ Name/ Signature						
Emotional Status	□ Calm □ Anxious □ Depress □ Others:						
Activity level	☐ Steady gait, no dizziness ☐ Requires assistance ☐ Unable to ambulate						
Post-op sore throat	□ Nil □ Minimal □ Moderate □ Severe □ Not applicable						
Post-op hoarseness	□ Nil □ Slightly □ Severe □ Cannot speak because of hoarseness □ Not applicable						
Post-op dental or oral injury	□ Nil □ Yes, please specific □ □ Not applicable						
Post-op Nausea & vomiting	□ Nil □ Minimal □ Moderate □ Severe □ Not applicable						
Post-op Dizziness and drowsiness	□ Nil □ Minimal □ Moderate □ Severe □ Not applicable						
Post-dural puncture headache	□ Nil □ Minimal □ Moderate □ Severe □ Not applicable						
Wound pain	□ Nil □ Minimal □ Moderate □ Severe						
Wound bleeding	□ Nil □ Minimal □ Moderate □ Severe						
Remarks							

Results of NLD programme Jan – Dec 2017

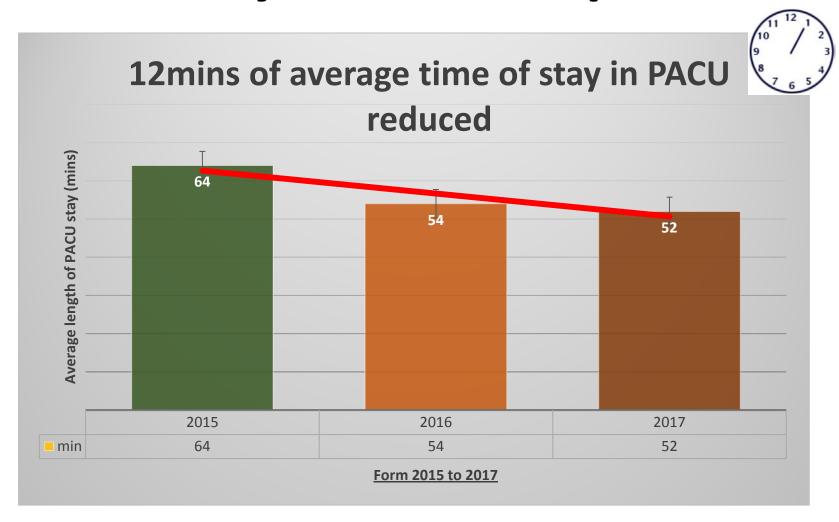


Phase I NLD in PACU

(Period from Jan to Dec 2017)

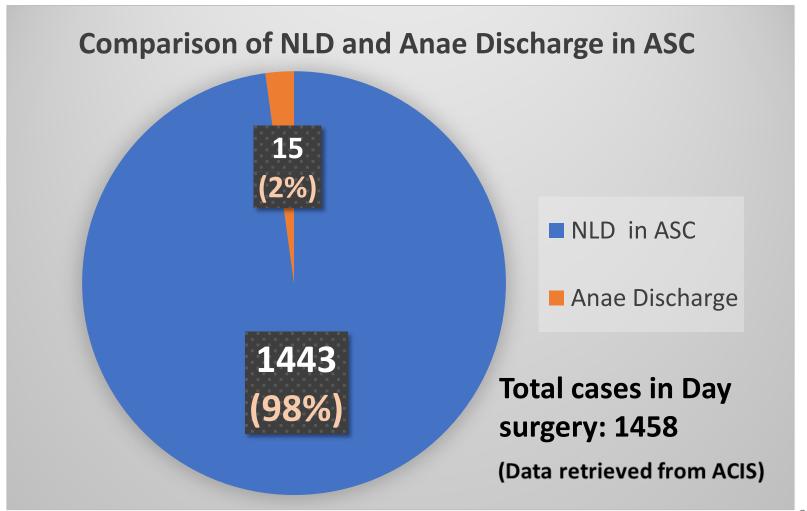


Efficiency in PACU Improved



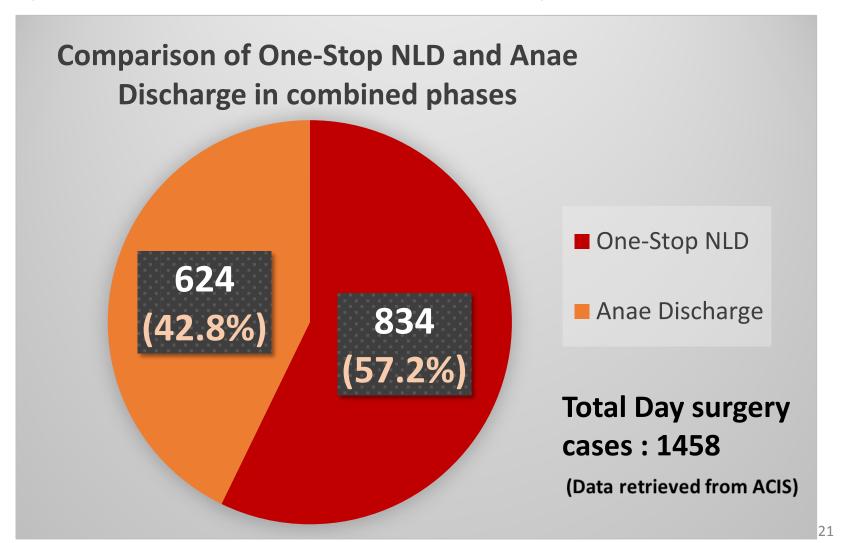
Phase II NLD in ASC

(Period from Jan to Dec 2017)



One-Stop NLD (Phase I - II)

(Period from 1 Jan to 31 Dec 2017)



Patient's Safety Ensured

- Zero incident has been reported
- No patient discharged by nurses was re-admitted

Nurse Satisfaction Achieved

92% of nurses feel empowered and can manage patient flow effectively from satisfaction survey



Way Forward



- Expand the pool of NLD Programme
- Provide refresher training for NLD nurses with regularly every 2 years
- Reduce the length of stay in PACU
- Extend the NLD service hours



TKOH NLD Team and Trainers

Acknowledgement

We would like to express our deepest appreciation to

Dr. H K Cheng Deputy HCE / COS(A&OT/IDSS) / SD(ASC), TKOH

Dr. Szeto Ling CONS (A&OT), TKOH

Dr. T M Lee AC (A&OT), TKOH

Mr. Y Y Ngai DOM (A&OT / ASC), TKOH

Ms. Maria Yeung WM (A&OT), TKOH

Ms. C K Fung WM (ASC / IDSS), TKOH

All NLD Team members, TKOH