





# TNC Role in Emergency Department



## Thanyaras Piyawatchwela

Registered nurse, Senior Professional Level Supervisor nurse of Emergency department Khon Kaen Hospital







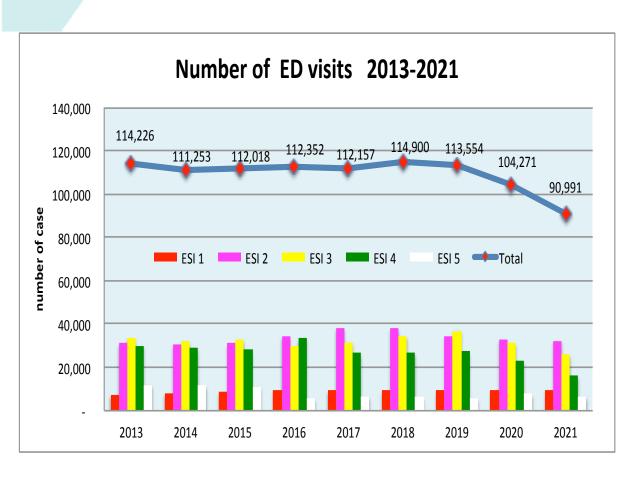
# Outline

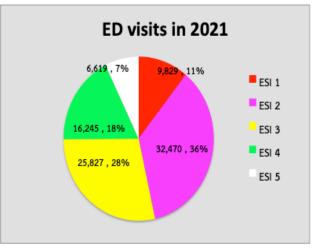
- Structure / Staff ER nurse
- Role of Trauma nurse coordinator at ER
- ER nurse competency







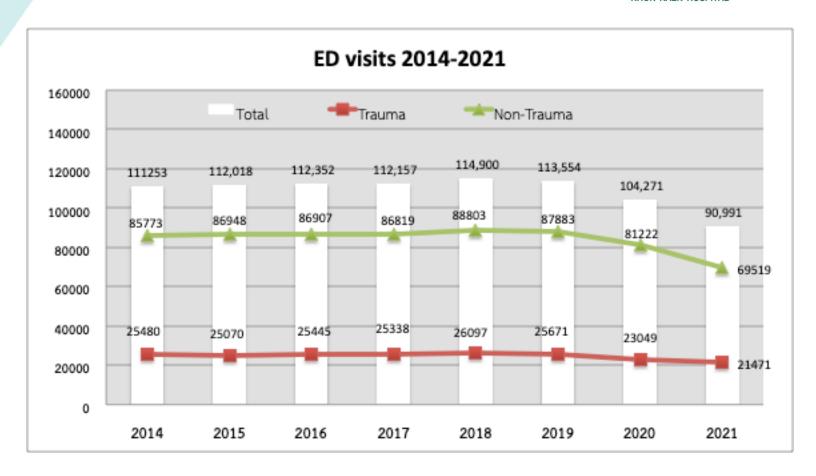














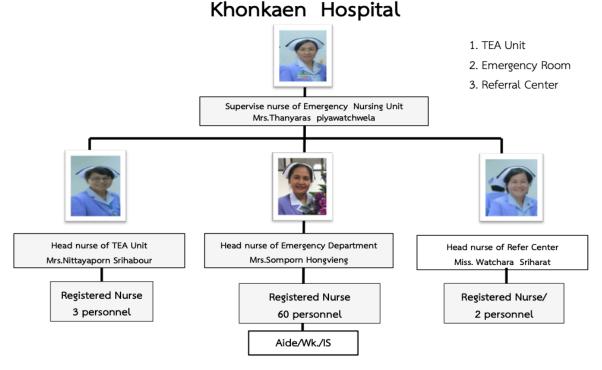






# Structure Emergency Nursing Unit,











# Nurses in Emergency Department

### Registered nurse 60

- Bachelor degree 31(51.67)
- Master degree 8 (13.3%)
- ENP/EN 13 (21.7%)
  Critical care 1 (1.7 %)
- TNM 3 (5.0 %)
- Nursing Administrative 4 (6.7 %)



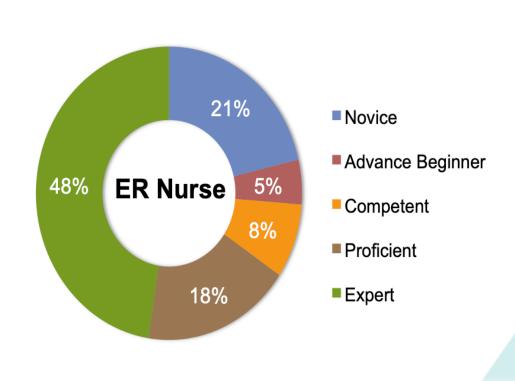






# ED Nurse Competency level

Competency level	Total
Novice (0-2 yrs)	13
Adv. Beginner (3-4yrs)	3
Competent(5-7yrs)	5
Proficient(8-10)	11
Expert (>10yrs)	28
Total	60









# Manpower



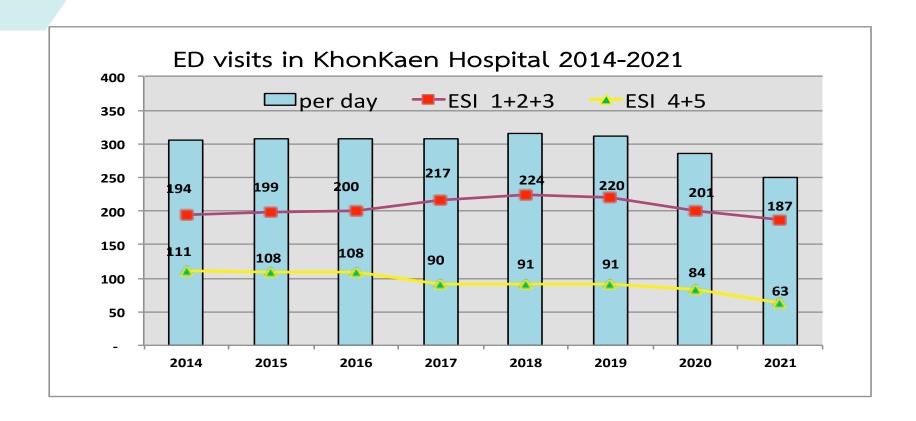
Shift =8 hrs	Sup/Head/ Staff nurse	Register nurse	total
8 am-4 pm	4	23	27
4 pm-12 am	- -	20	21
12 am-8 am	- -	12	12

**International Online Training** 















٨: 1	Shift (8 hrs)		
Assignment	Day	Evening	Night
Incharge	1	1	1
ER call center	2	1	0
Triage	3	3	1
Consultation Zone	2	1	0
Clean ZONE	5	5	3
Isolation ZONE	5	4	3
Resuscitation Zone	4	4	3
ER nurse manager	1	1	1
Total	23+4*	20	12

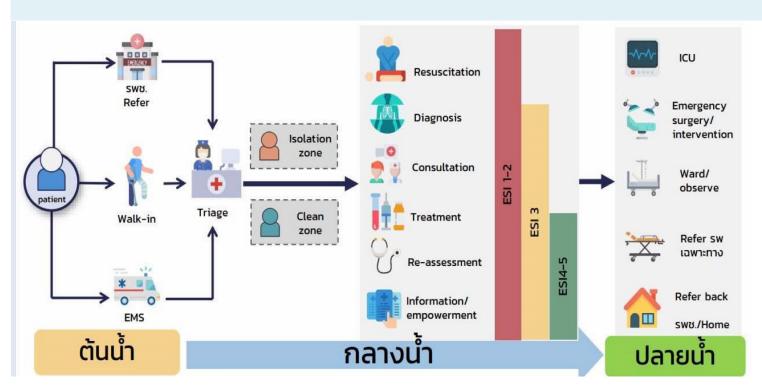
<sup>\*</sup> Supervisor /head nurse /senior staff nurse







# **ER Patient Flow**



(Department of Medical Services, MOPH)

International Online Training







#### **FAST TRACT**

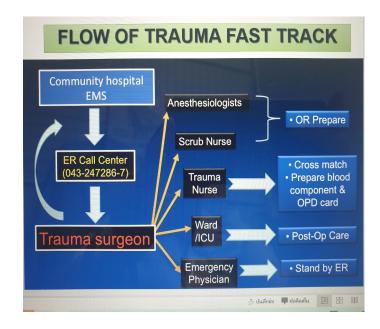


#### Trauma Fast tract

- Multiple injury (Trauma Fast tract)
- Head injury
- C-Spine

Non Trauma Fast tract

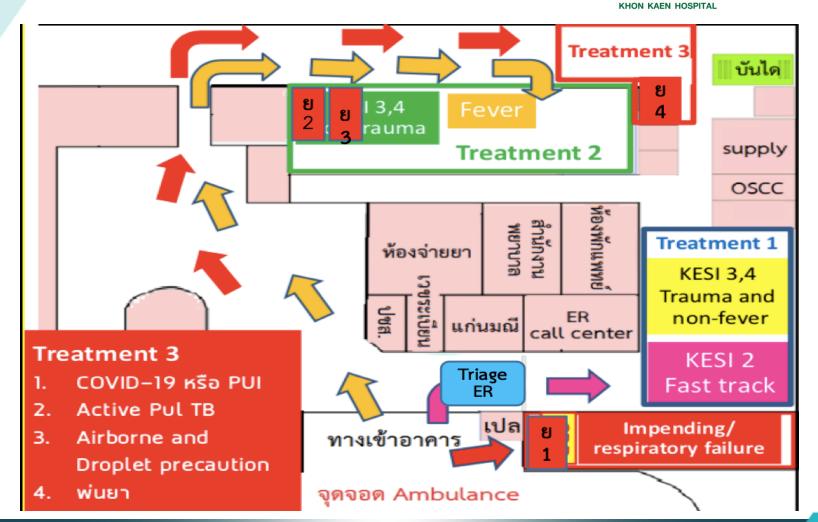
- STEMI
- Stroke
- Severe Sepsis & Septic shock
- Pediatric
- High risk
  Pregnancy











**International Online Training** 







zone ตามโครงสร้างและระบบปรับ อากาศและระบบระบายอากาศ



Resuscitation เป็น seminegative เป็น buffer zone สำหรับ ET tube, intubate, CPR



Negative 1 ห้อง สำหรับ PUI หรือ suspected COVID หรือ active TB และอื่นๆ ที่เป็น droplet/airborne







#### zone ตามโครงสร้างและระบบปรับ อากาศและระบบระบายอากาศ

#### treatment 1

FAST TRACT, trauma IIa: non-trauma(non-fever)



#### Treatment2

buffer zone (มีหน้าต่าง ระบายอากาศ) สำหรับ fever son fast tract with fever), observe









Treatment 3 (Contagion zone)

New Zone



ER KKH in COVID-19 pandemic

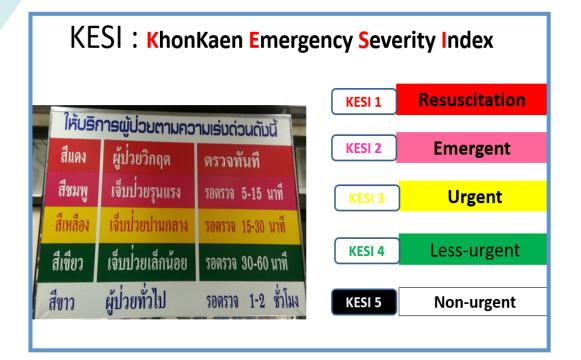
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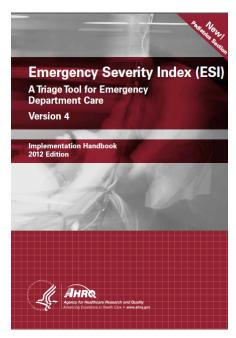
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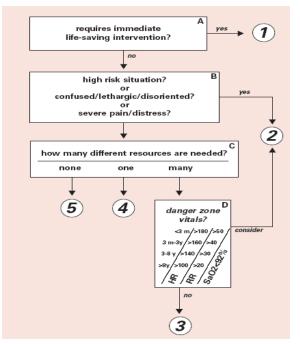


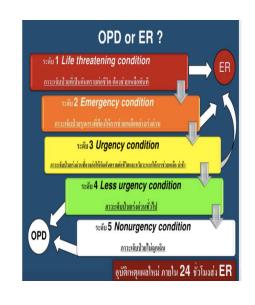






# **KESI Conceptual Algorithm**





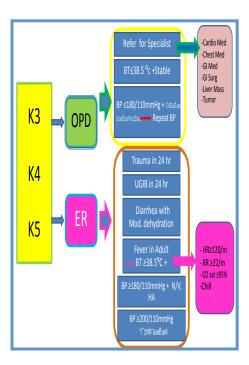


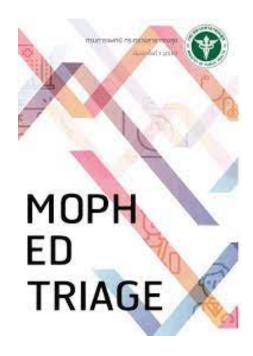








Table 3-3. ESI Resources		
Resources	Not resources	
Labs (blood, urine)	History & physical (including pelvic)	
ECG, X-rays CT-MRI-ultrasound angiography	Point-of-care testing	
IV fluids (hydration)	Saline or heplock	
IV, IM or nebulized medications	PO medications Tetanus immunization Prescription refills	
Specialty consultation	Phone call to PCP	
Simple procedure = 1 (lac repair, Foley cath) Complex procedure = 2 (conscious sedation)	Simple wound care (dressings, recheck) Crutches, splints, slings	









# **ER Nurse Training**

- Pre-Hospital Emergency Nurse: PHEN (5 days)
- Referral Nurse (3 days)
- Emergency Nurse Practitioner : ENP( 4month)
- PALS, ACLS ,Disaster
- Hospital Preparedness for Emergency :HoPE
- Advance Trauma Care for Nurse
- Assertive in Workplace









# **ER Nurse Competency**

- ED triage
- Emergency condition: Trauma, Stroke, STEMI, Pregnancy Pediatric, ACLS, BLS
- Communication skill: Woman Violence
- Interpretation skill: EKG
- Pharmacology: High alert drug, Drug interaction
- Patient management : PEP, ....Fast Track
- Special Equipment
- Risk management













# ER Nurse competency





OSCEs (Objective Structured Clinical Examinations)

: Stations are designed to test knowledge and understanding of assessment ,planning implementation and evaluation of nursing care

































### Equipment

















#### Scenario in situation



















### **Hospital Crisis Management Exercise : HoCMEX)**





























#### Trauma Nurse Coordinator Role

Triage Audit in 2018

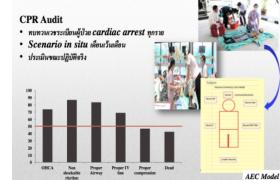
#### Trauma Audit

- ผู้ป่วยทุกรายที่เสียชีวิตด้วยอุบัติเหตุ
  Ps > 0.75
- โดยทีมสหสาขาวิชาชีพทุกเดือน

No.	Adverse event/Errors	Policies/Guideline /Action Plan	
1	Delayed CT/Film	Guideline CT scan , Multi-Disciplinary conference	
2	Delayed surgery	Trauma Fast Track	
3	Miss diagnosis	X-rays Conference / TM noon report	
4	Communication / System problems	Interdisciplinary conference / Interdepartmental conference (Ortho / EP)	
5	Delayed blood transfusion	Multi-disciplinay team conference	
6	Transfer problem (ward to ICU)	APACHE II	
7	Transfer problem (local hospital)	TEC, APACHE II, TFT	
8	Complication of procedure	Training , Journal club , KM	



KESI		Overtria ge (%)	
1	82	18	0
2	74.4	23.2	2.3
3	80	14.3	5.7
4	56.6	16.7	26.6
5	85.7	0	14 3









**PST Conference** 



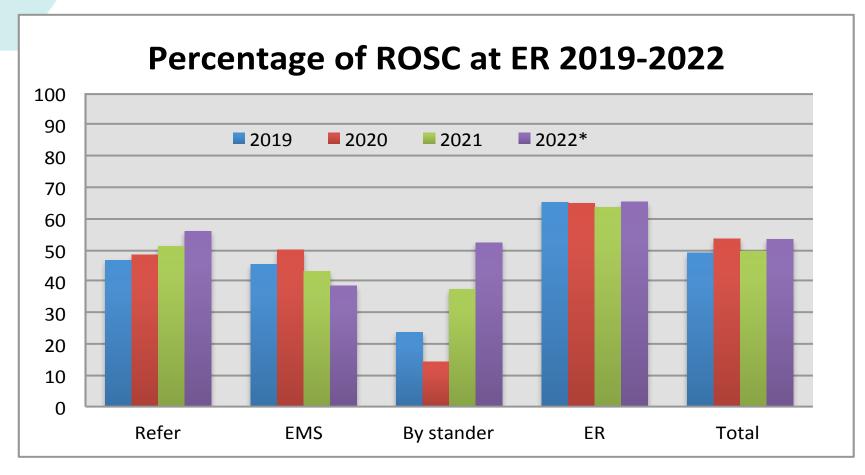
conference

**International Online Training** 







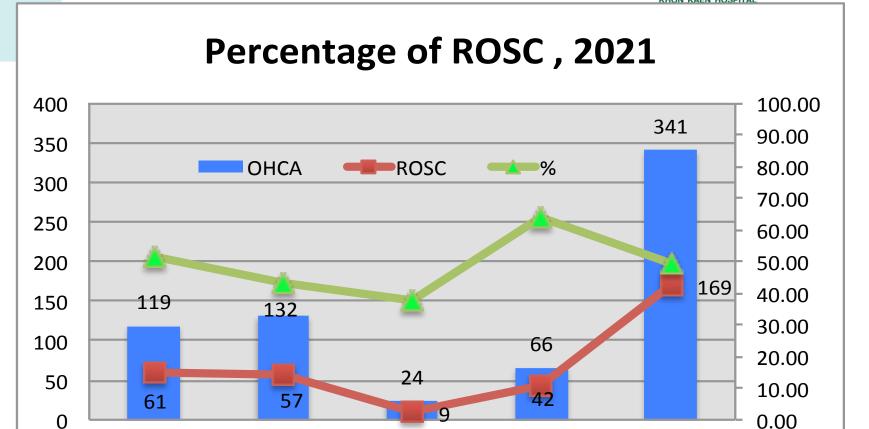


\* 7 month









By stander

**EMS** 

**ER** 

Total

Refer







%

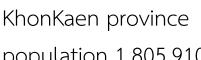
6.81

64.39

Khon Kaen CPR Challenge in high school level

Training for students and people in Khon Kaen province

Training for monk









By stander CPR the monk



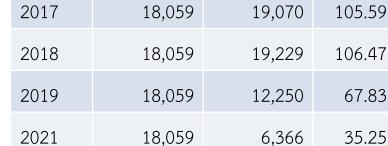






EMT CPR the monk





18,059

90,296

1,229

58,144







2022









# THANK YOU

