

# Disaster Management Khon Kaen Hospital

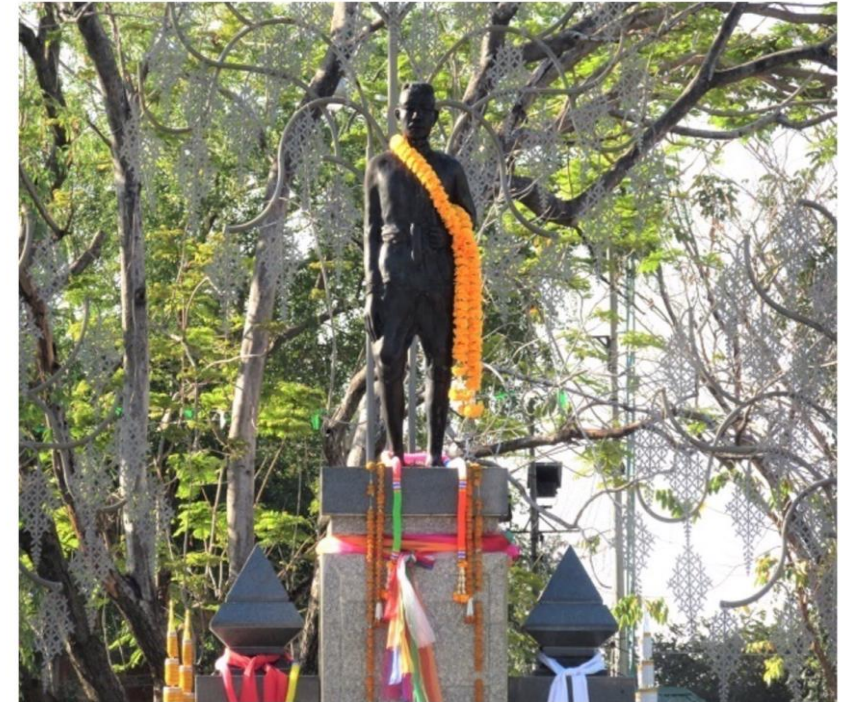


Mrs.Somporn Hongveang

Head Nurse of Emergency Department

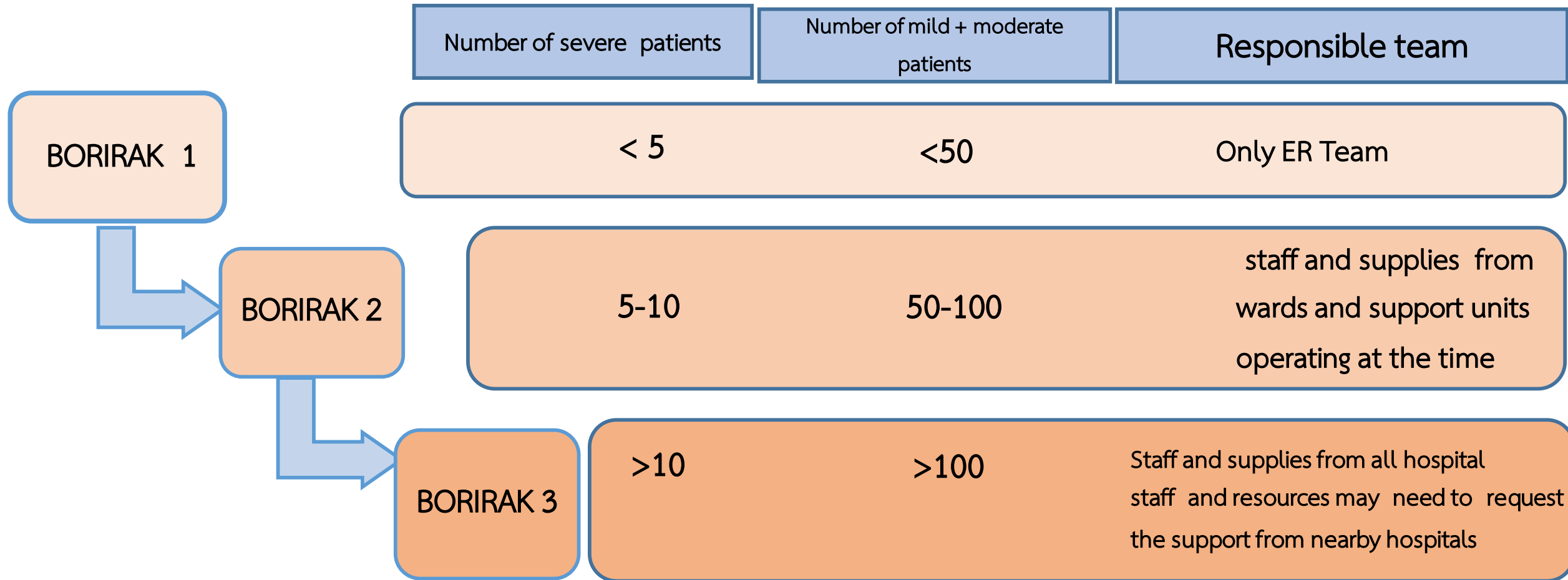
# Disaster Plan in Khon Kaen hospital is the name “BO – RI – Rak Plan ”

**BO-RI-Rak Plan** is an emergency response plan for mass casualty, public disaster or other serious epidemics used when the number of patients exceed the normal capacity of the Emergency Department.



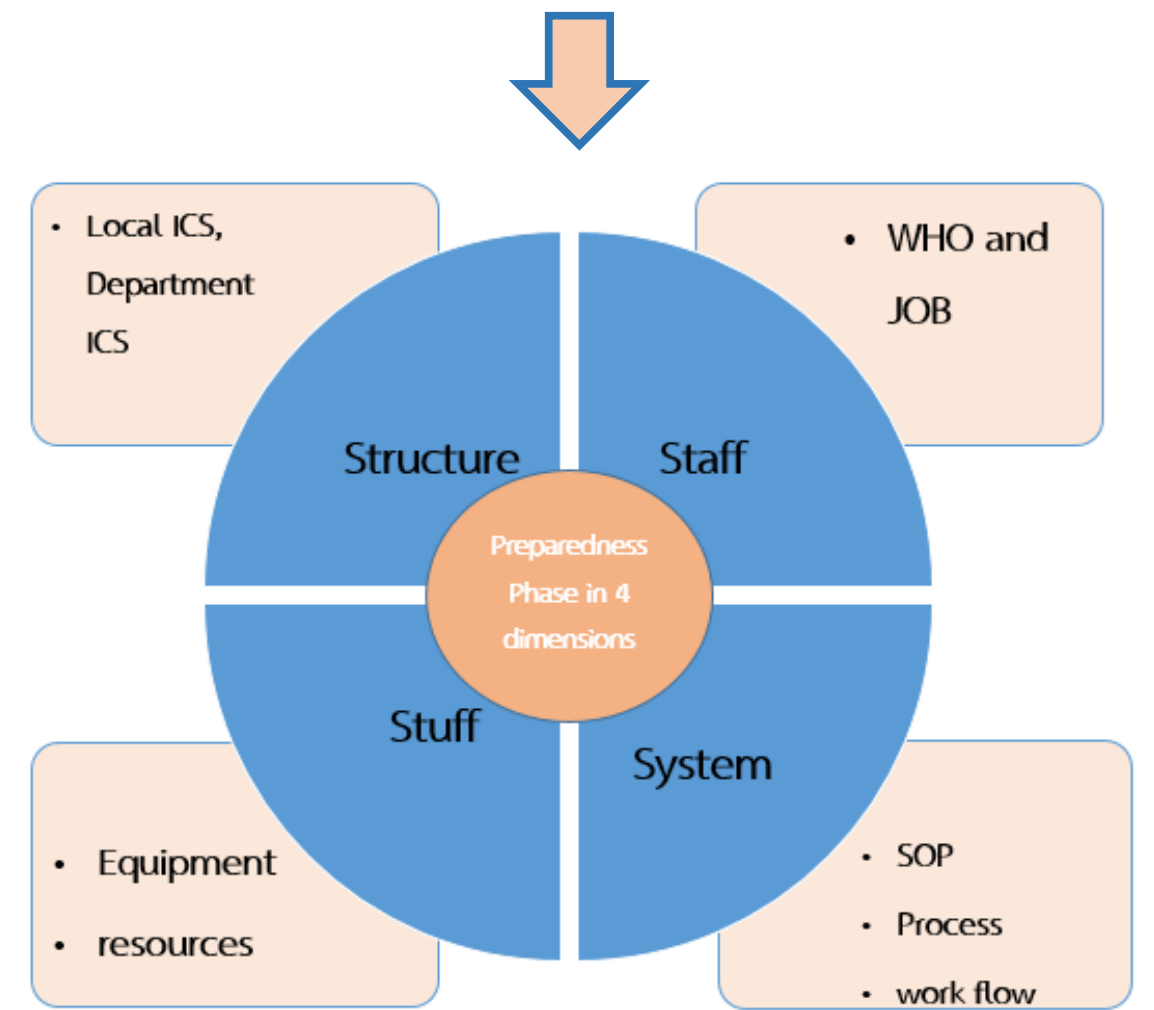
BO – RI – Rak is from the founder's name of Khon Kaen Province

When there is emergency incident, a BORIRAK plan will be announced of which consists of 3 plans according to the severity of situation and number of patients



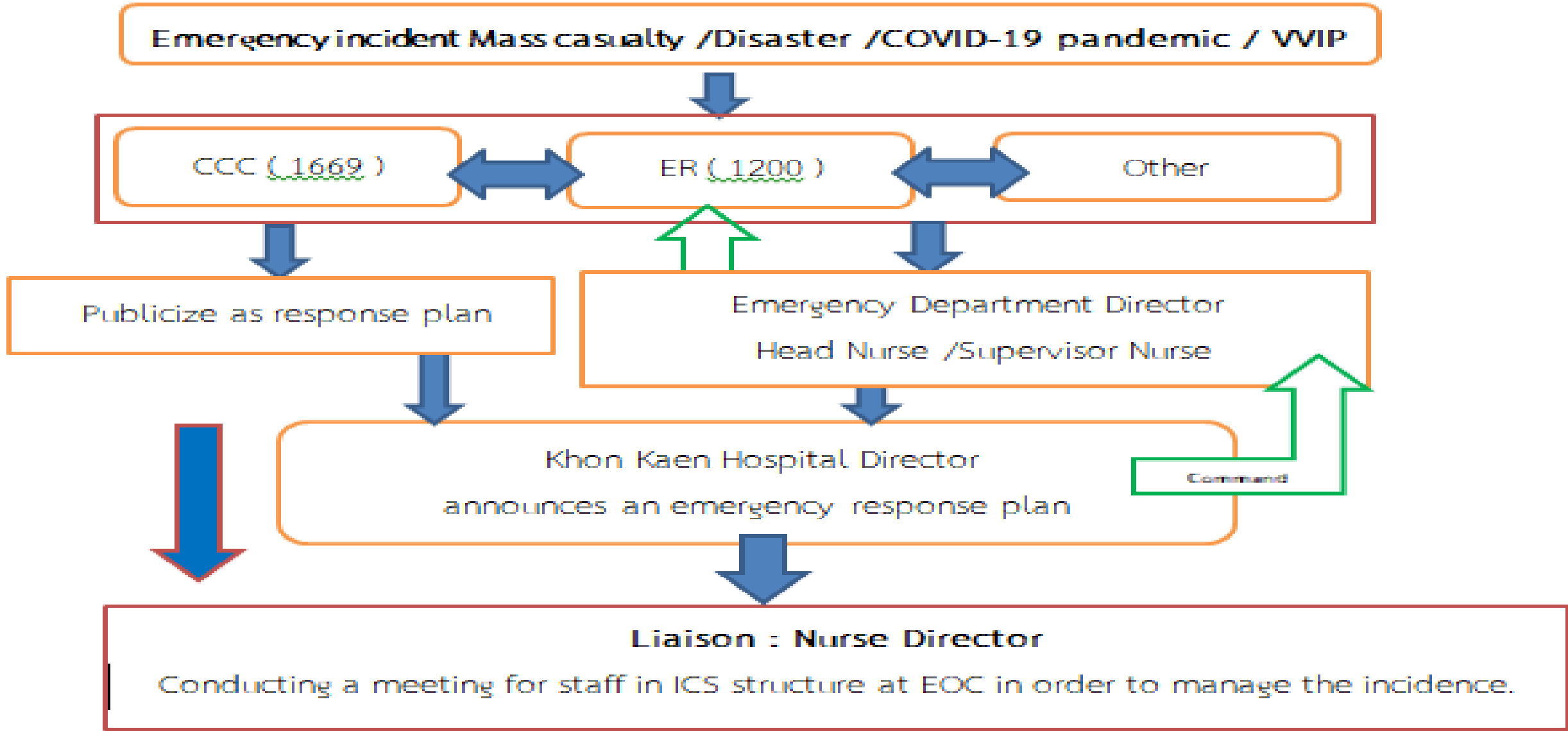


The preparation covers 4 domains, such as structure, Staff, equipment and response mechanism when an emergency situation arises both outside and in the hospital.

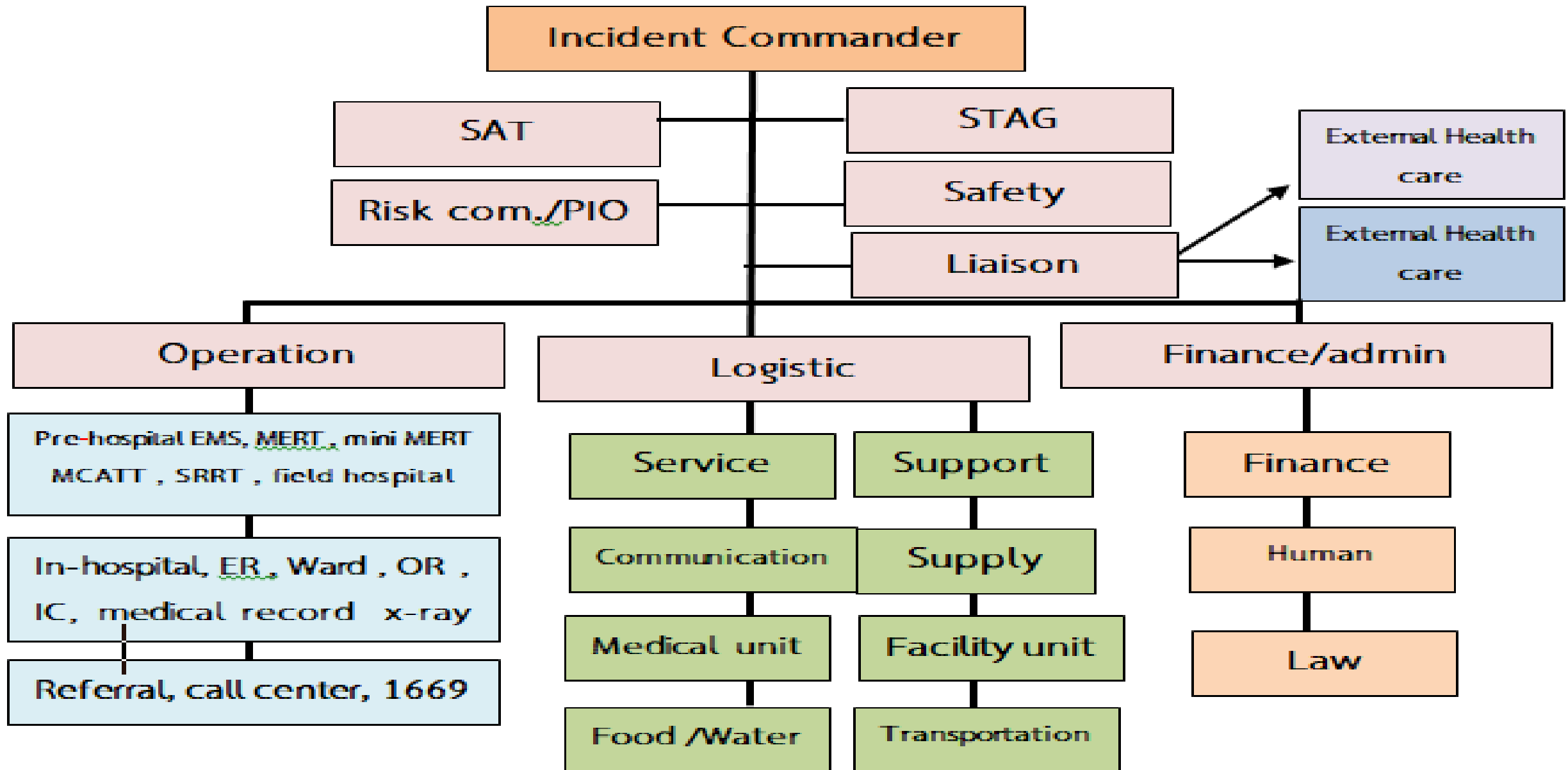


# 1. Structure

## Flow and communication of Emergency Department



# Incident Command System (ICS) : Khon Kaen Hospital



# ICS in ER

Incident Commander

operation

Supervisor Nurse

Head Nurse

Emergency Department  
Director

Nurse Manager

Medical commander

triage Manager  
zone

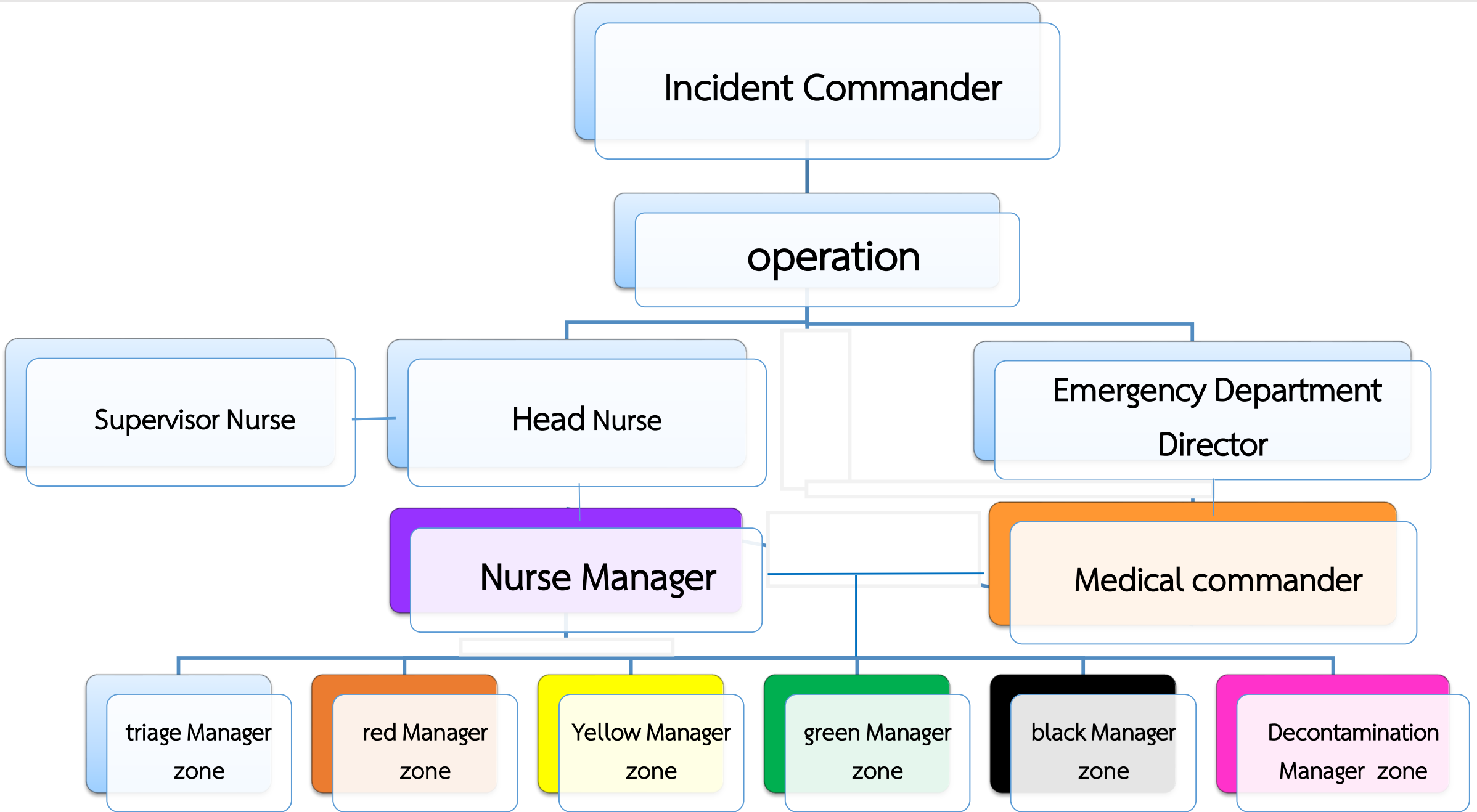
red Manager  
zone

Yellow Manager  
zone

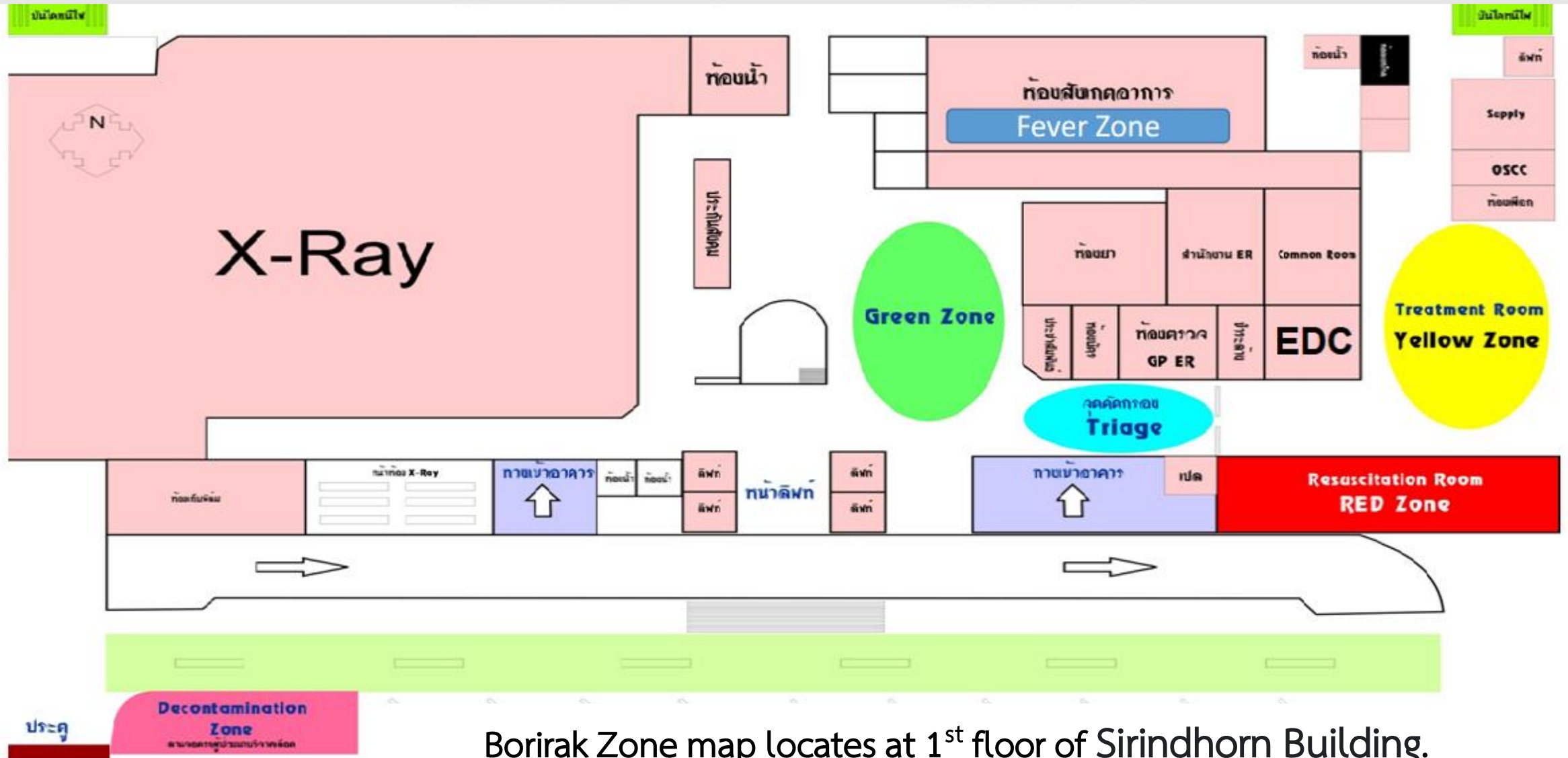
green Manager  
zone

black Manager  
zone

Decontamination  
Manager zone



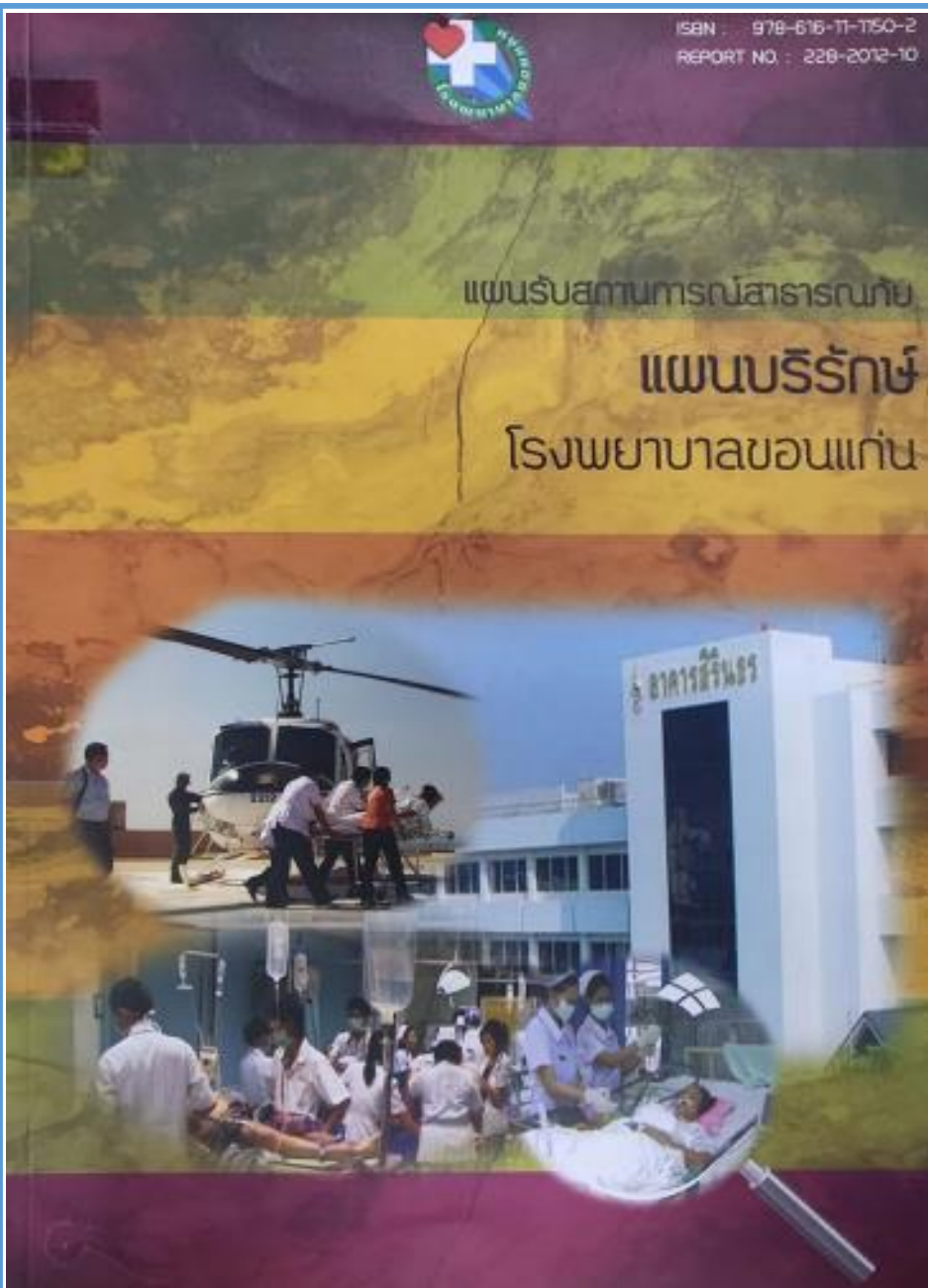
# Structure



Borirak Zone map locates at 1<sup>st</sup> floor of Sirindhorn Building.



## 2. System



Is the emergency response plan for mass casualty, public disaster or other serious epidemics. How do you know what should to do when ER is calling you?

# one page for action plan of BO-RI-RAK Plan

## 4 steps "BORIRAK Plan"

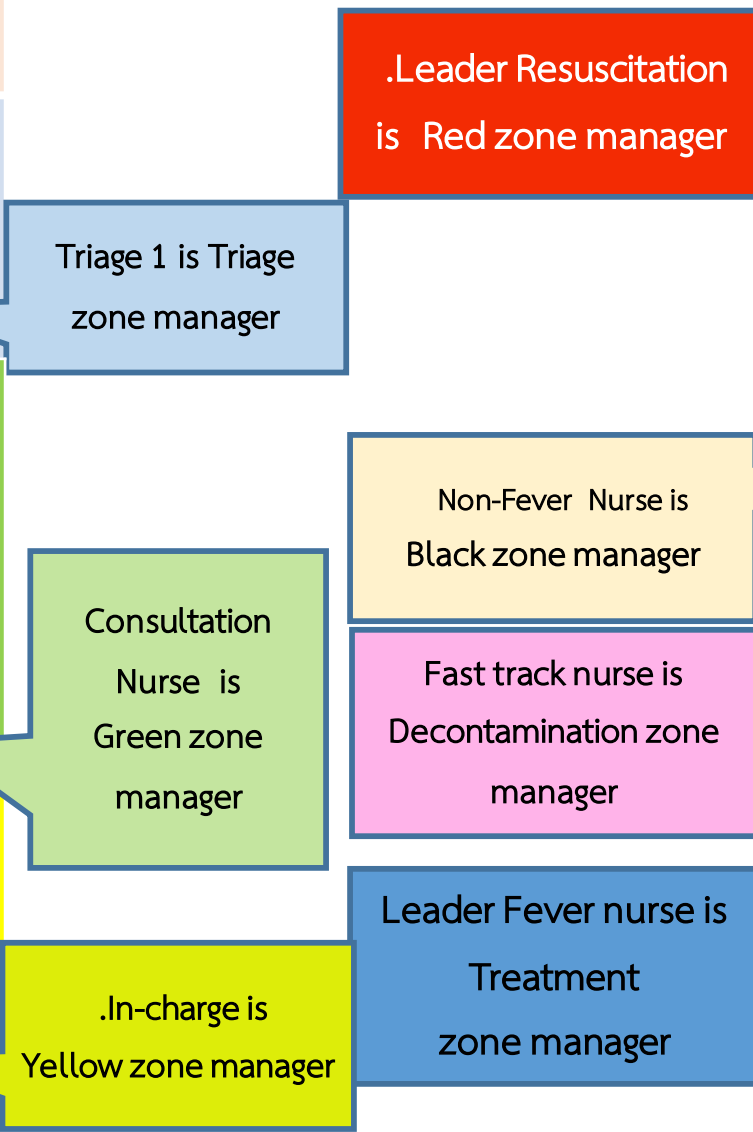


To assigned wording for communication between each team



### 3. Staff : To assign the job description for all staffs in each team

Zone	doctor	nurse	Nurse aide	worker	other
Triage Zone	-	Triage Fever zone nurse	Pediatric ward	VIP ward	
Green Zone	Gynecology Pediatric Eyes	OPD special Ward Labor Room. ENT	ENT male medicine ward	Male medicine ward	Staffs from Refer Back Center
Yellow Zone	-General surgeon Orthopedist team	Triage Fever zone nurse	Pediatric ward	VIP ward	



Zone	แพทย์	พยาบาล	ผู้ช่วยเหลือคนไข้	คนงาน	อื่นๆ
จุดบาดเจ็บหนัก (Red Zone) สถานที่: ห้องฉุกเฉิน	1. Staff ER คนที่ 2 2. Resident ER 3. ศัลยแพทย์ ทีม 2 4. แพทย์สัลยกรรมกระดูก ทีม 2 5. วิสัญญีแพทย์	1. Resuscitation Team ER 2. พยาบาล ICU CVT 3. พยาบาล CCU 4. พยาบาล ICU MED 1 5. พยาบาล ICU MED 2 6. พยาบาล ICU TM1 7. พยาบาล ICU TM2 8. พยาบาล ICU Sx.1 9. พยาบาล ICU Sx.2 10. พยาบาล ICU NS 11. พยาบาล PICU 12. พยาบาล NICU 1 13. พยาบาล NICU 2 14. วิสัญญีพยาบาล * 15. ห้องผ่าตัด*	1. Resuscitation ER 2. ศึก อร.1 3. ศึกพิสน 114/5 4. อารูกรวมหญิง 3	1. ศึก ER 2. ศึกเด็กโต	1. Paramedic 2. EMT-1 3. เทคนิคการแพทย์ 4. จนท. บริหาร

Zone	แพทย์	พยาบาล	ผู้ช่วยเหลือคนไข้	คนงาน	อื่นๆ
จุดเสียชีวิต (Black Zone) สถานที่: หน้าลิฟต์ หลังตึก	1. แพทย์ชนิดพิเศษ 2. พยาธิแพทย์	1. พยาบาล Non-Fever 3 2. พยาบาลเด็กตา 3. พยาบาลจิตเวช *			1. จนท. เวชนิทัศน์ 2. จนท. ห้องเก็บศพ

Zone	แพทย์	พยาบาล	ผู้ช่วยเหลือคนไข้	คนงาน	อื่นๆ
จุดล้างตัว (Decontamination Zone) สถานที่: จุดกรรรม	1. แพทย์อายุรเวชกรรรม	1. พยาบาล Fast tract Zone คนที่ 2 2. พยาบาล IC			1. จนท. อาชีวเวชกรรรม

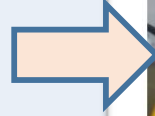
Zone	แพทย์	พยาบาล	ผู้ช่วยเหลือคนไข้	คนงาน	อื่นๆ
จุดสังเกตอาการเดิม (Fever Zone) สถานที่: ห้องสังเกตอาการเดิม	1. อายุรแพทย์	1. Leader Fever Zone 2. พยาบาลโตเทียม 3. พยาบาลอายุรกรรมโรคเลือด 4. พยาบาลเด็กเล็ก 5. พยาบาล RICU 6. พยาบาล รังสีรักษา *	1. ห้องสังเกตอาการ 2. เด็กโต 3. รังสีรักษา*	1. เด็กเล็ก 2. รังสีรักษา*	

Zone	แพทย์	พยาบาล	ผู้ช่วยเหลือคนไข้	คนงาน	อื่นๆ
Transportation Zone สถานที่: -	-	1. พยาบาลศูนย์แปล	1. ศูนย์แปล	1. พนักงานศูนย์แปล	

\* จะดูตามเมื่อมีการกิจ เท่านั้น  
 รังสีรักษา \* ประกาศแผน 3  
 พยาบาลจิตเวช \* ผู้ป่วยเรื้อยาดังกล่าว Emotional Crisis  
 บุคลากรที่มาช่วย ดบรายชื่อ  
 อย่างน้อยศึกษละ 1 คน  
 ปรีวัน 24/03/2565

## Emergency Physician: Scene assessment with head nurse or nurse manager.

1. On duty as medical commander.
2. wear the orange medical **vest**
3. Scene assessment and BO-RI-Rak Paln announcement in emergency situation.
4. To commanded and assigned job description inside Emergency Department.



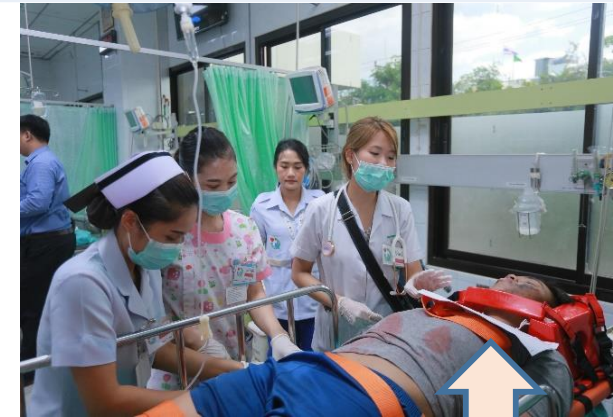
## nurse zone manager

1. wear the zone manager vest
2. orientation to nurse from each department
3. On duty as leader of zone and management
4. To convenience for support team.
5. To document the number of all patient in zone and submit to the nurse manager.



## Paramedic/AEMT

1. On duty as Advance Cardiac Life Support Team
2. To provide assistant with the team to splint, move the patients and other procedures as the job description.
3. To transfer patients as assignment.



## Nurse member team

1. On duty with Advance Cardiac Life Support Team as a circulation team
2. To document the nurse note.
3. To coordinate to admit or discharge the patient or others.

# Job description the support team

## Doctor

1. To assess the symptoms and give some treatments to patients.
2. To document physical examination.
3. To give more information to patients



## Nurse

1. Caring and nursing followed by the symptoms and medical order.
2. To document the nurse note.
3. To transfer patient or others as assignment.



## Nurse aide

1. To prepare and store the equipment for ready to use and enough.
2. To clean all equipment.



## Worker

1. To provide assistant with the team to move the patient or others followed by assignment

## Other Personnel

Perform duties in accordance with the roles of the agency such as public relations, registration, security guards, drug store, radiologic technicians and other team.



Card tag for identification in each service zone.

# 4. Stuff

Medical color vest to identify the manager zone.

Radio communication



Essential medicines



MC code for identification patient



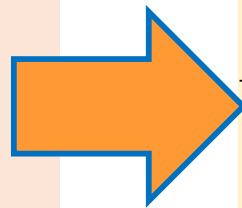
Triage tag to count number of patient



oxygen tanks, ventilators, blood pressure monitoring devices, stretchers , PPE etc.

# Steps to BO-RI -RAK announcement

1. When In-charge nurse received the news information from the CCC. Then notify to medical staff and nurse manager or head nurse. And notifies Emergency department director .
2. Emergency department director notifies to the director of the Khon Kaen Hospital to BORIRAK announcement allowed
3. After that, the Emergency department director notifies back to medical staff and nurse manager and call the public relation and all members in the shift
4. The code announcement for BORIRAK 2 or 3
5. Then turn on the light for identify zone
6. “An announcement from Khon Kaen Hospital. All off staffs should be participation as follows in BOR RI RAK Plan2/3, please. ” (repeat for 5 times)



7. ER and all departments personnel are assigned including operating unit and support unit to join the mission in the Borirak Plan.
8. Personnel who come to help will be assigned to the area of responsibility.
9. When it cleared Nurse Manager and Medical Commander will notify Emergency department director
10. Emergency department director notifies to the director of the Khon Kaen Hospital to determinate BORIRAK plan
11. We have a code for determinate BORIRAK plan  
“An announcement from Khon Kaen Hospital. To allow to cancel the BRR Plan 2/3. All off staffs should be back to your department, please. ” (repeat for 5 times)

## map of buildings





### Triage area



### Red zone :



### Transport officer



### Green zone



### Yellow zone :



### Black zone :

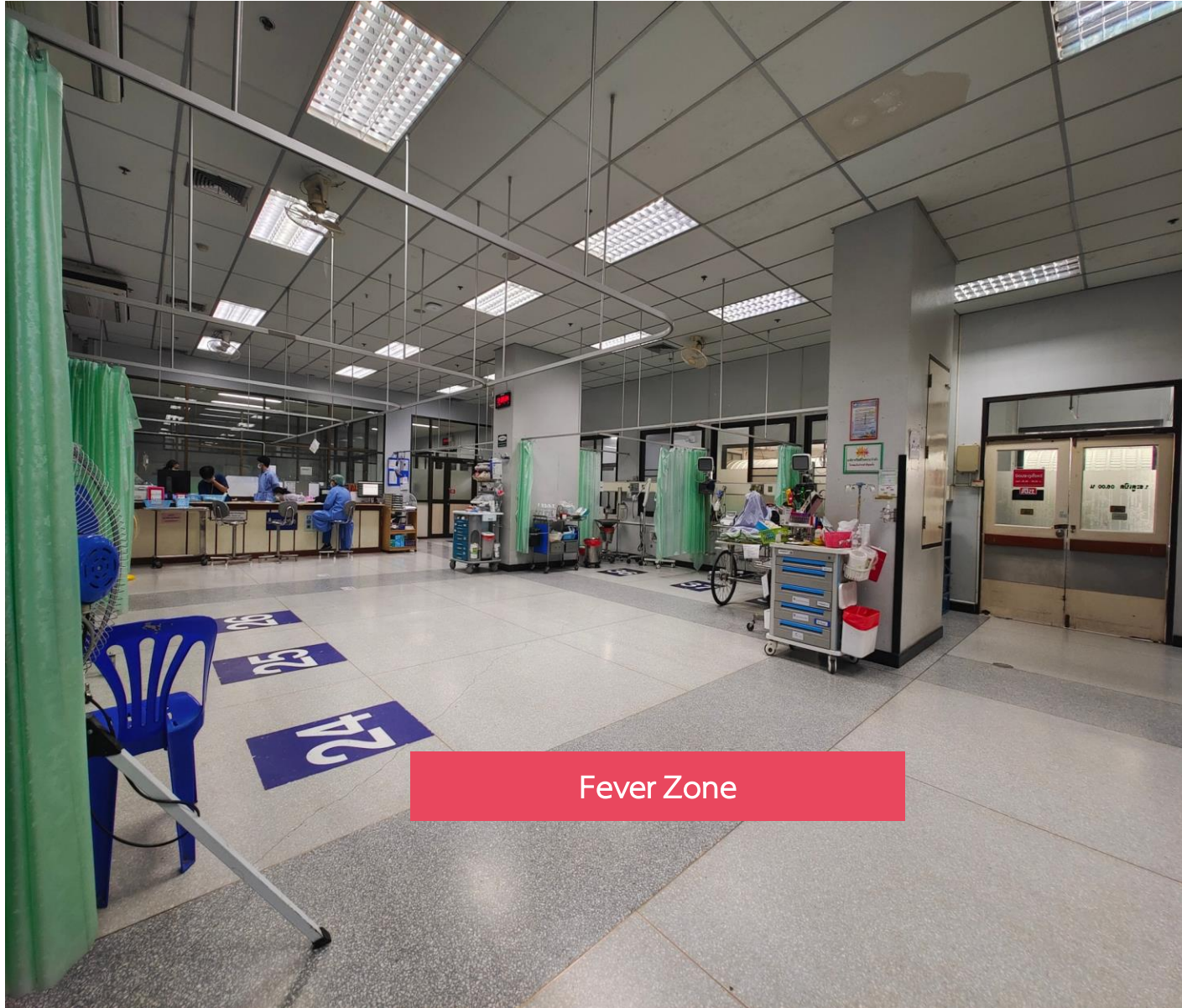


### Decontamination



Zoning for casualty or public disaster

# Planning zone in case of epidemic diseases.





We always table top exercised every year





Field exercised to prepare and get ready all the time.



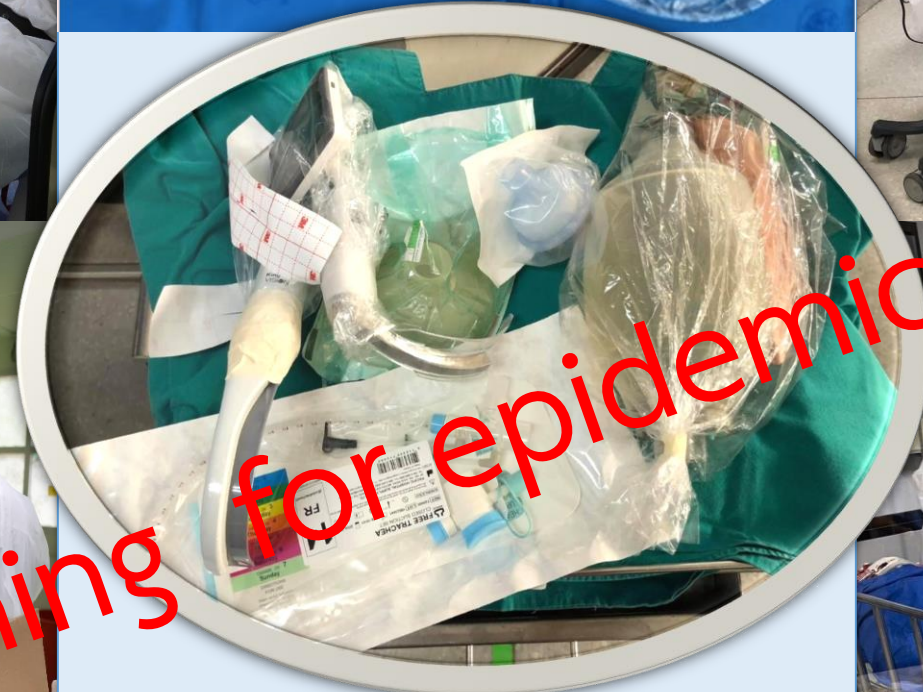
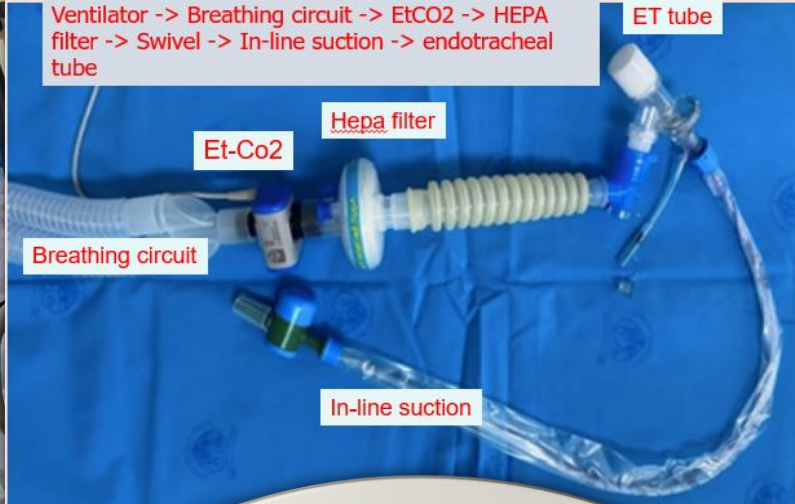


Training for mass casualty or public disaster



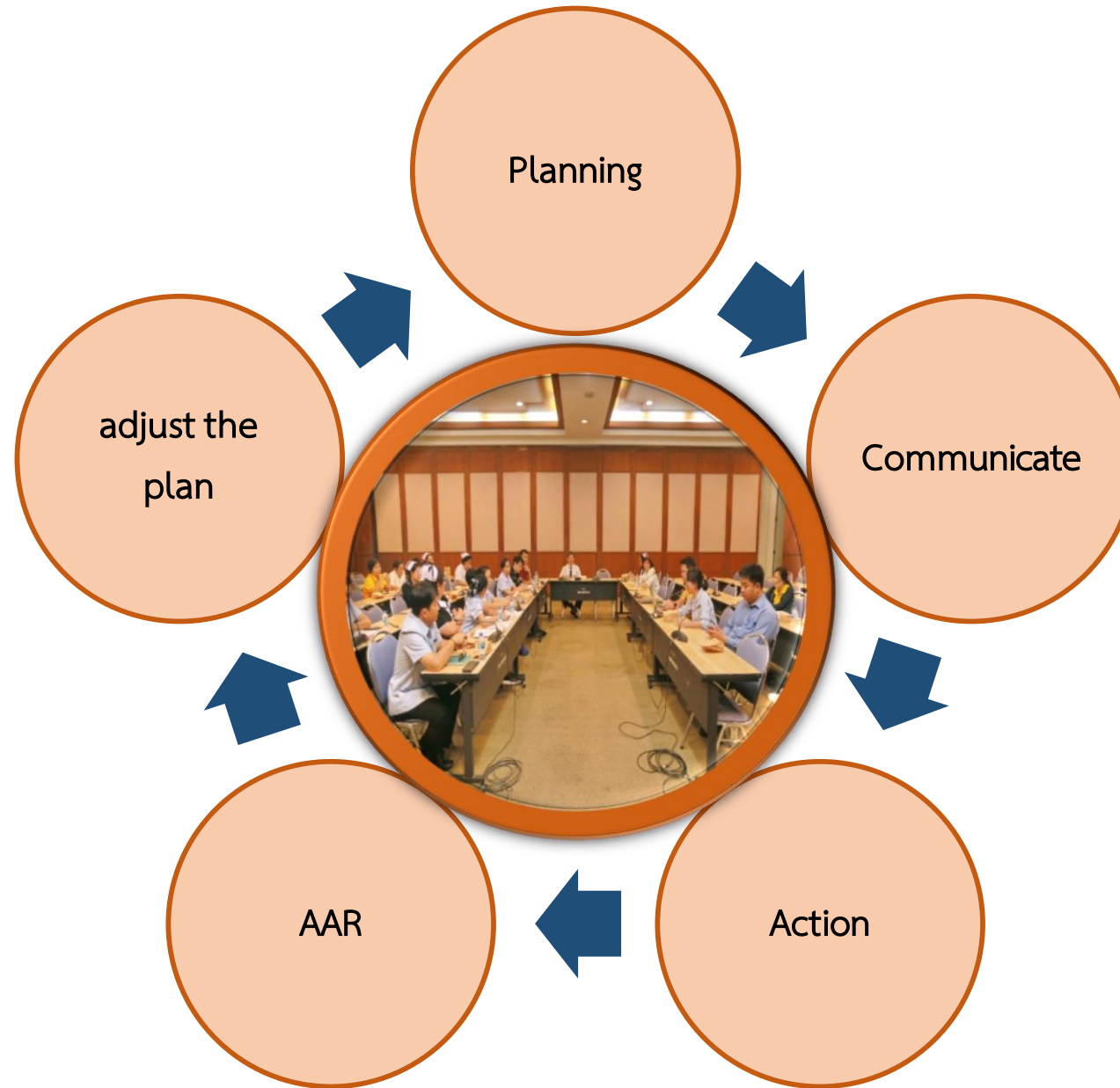
Casualty or public disaster

Training for mass



Training for epidemic diseases

# Preparedness phase of BORIRAK Plan: Khon Kaen Hospital







Thank  
you