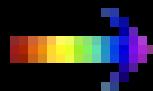


Hospital Facilities for Disaster Preparedness

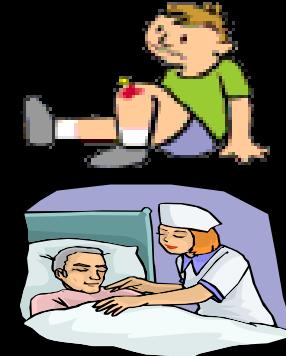
*Department of Emergency Medicine
Faculty of Medicine – University of Brawijaya*

Concept of Disaster & Emergency Assistance



IDP's

- injuries
- deaths
- malnutrition
- SAB & environment. (-)
- Paralized health services
- etc



Mass victims

- injuries
- handicap
- deaths



Infrastructures damage



- building (hospital/PHC/Pustu) damaged
- Health equipment, Transport, communication equipment damage/missing
- Drugs supplies damage/missing, etc

- *"The key principle of disaster medical care is to do the greatest good for the greatest number of patients, while the objective of conventional medical care is to do the greatest good for the individual patient."*

Rui ned Heal th Center

Hospital



PHC (Puskesmas)



1. Facilities



General:

- Command Post
- Information Center
- Public Relation
- Public Kitchen
- Logistic depot
- Volunteer post
- Relatives/Family room

Supporting Facilities:

- Electricity
- Clean water
- Medical gas
- Fuel tank
- Communication system
- Waste disposal
- Air and ventilation

Victims Management:

- Triage
- Minor OT
- OT
- Isolation Room
- Wards
- Intensive-intermediate care unit
- Mortuary

FOOD !!!

Pos komando

- § Denah / peta RS tsb
- § Peta kota dan provinsi
- § Alat komunikasi
- § Komputer, printer dan internet
- § Televisi
- § Daftar nomer telpon penting
- § Buku Protap
- § Alur sistem komando & struktur organisasi

TIP & TRIK

§ MINIMAL INTERVENTION, PENDEKATAN ~
KEBIJAKSANAAN LOKAL

Hospital facilities

Registration



Triage



Hospital facilities

P1 (RED)



P2 (YELLOW)



Hospital facilities

P3 (GREEN)



Minor OT



Hospital facilities

Ward



Mortuary



Hospital facilities

Nutrition/Public Kitchen



Logistic & Pharmacy



Hospital facilities

Nurse Station



Office



Hospital facilities

Water Source



Disposal



Post

Volunteer Post



Command Post



Relatives/Family Post



Emergency Mass Casualty Decontamination Area



"Surge Capacity":

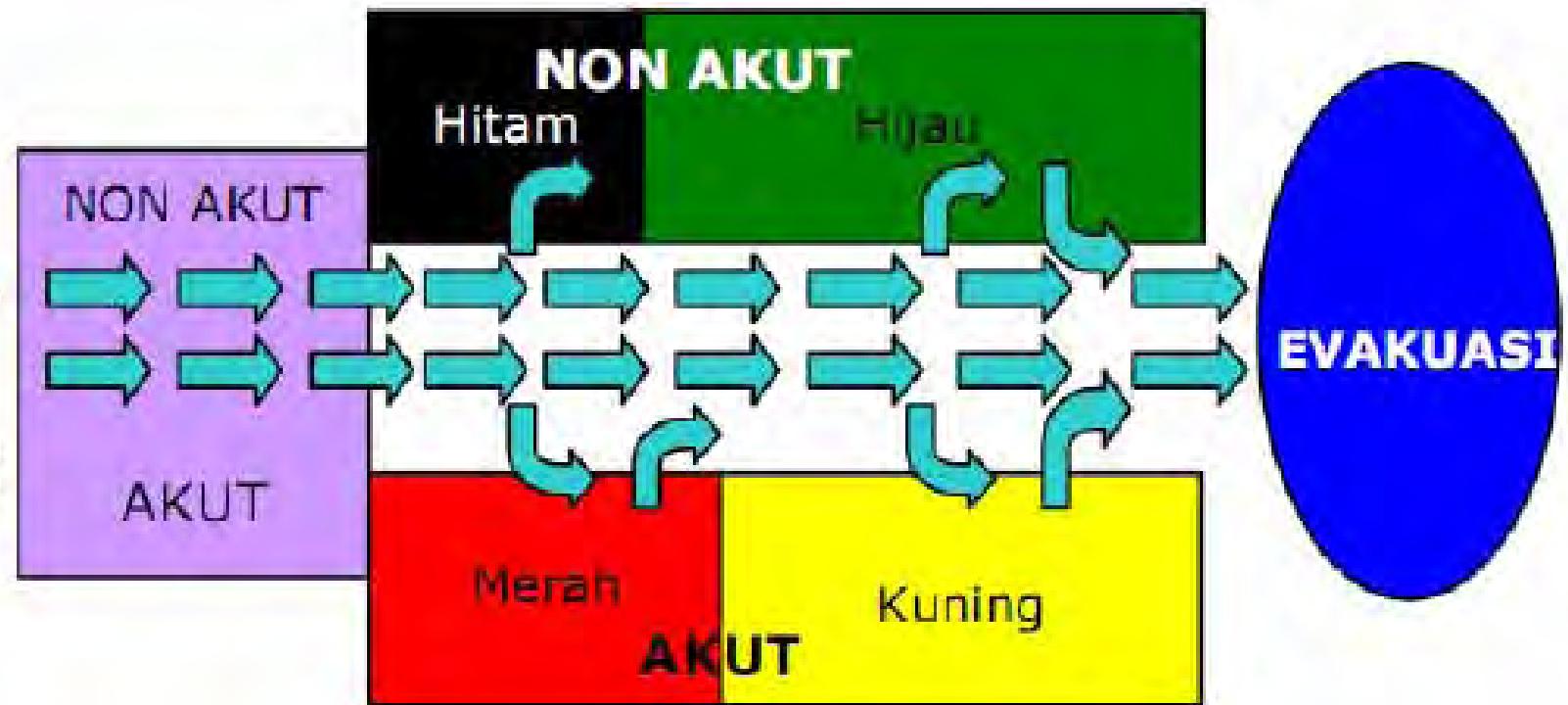
- § Kemampuan memenuhi kecukupan personil, supply dan peralatan, fasilitas, serta sistem agar dapat memberikan pelayanan yang memadai dihadapkan kebutuhan segera dengan adanya arus pasien yang besar akibat bencana.

Components Of Surge Capacity

- § General agreement does exist on its key components, which are referred to as the “4 S’s” of ‘staff,’ “stuff,” “structure,” and “systems.”
 - **Staff** refers to personnel,
 - **stuff** consists of supplies and equipment,
 - **structure** refers to facilities, and
 - **systems** include integrated management policies and processes

2. Plan

Hospital = Advance Medical Service
Post



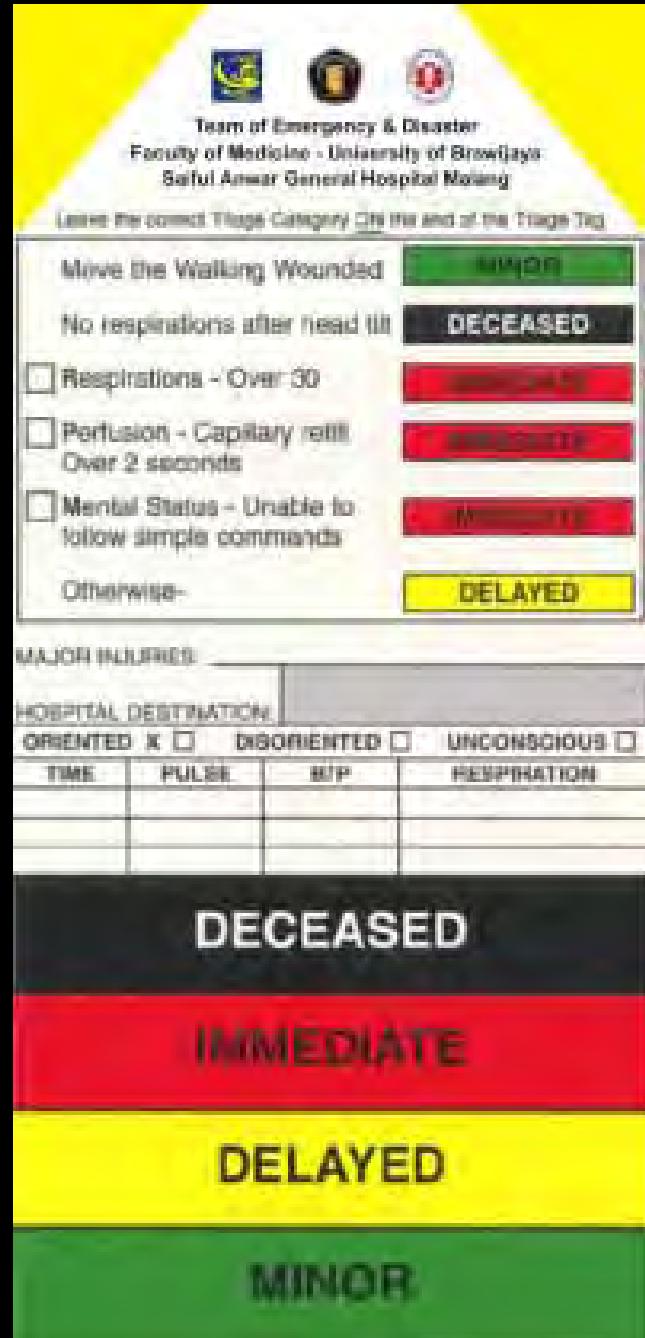
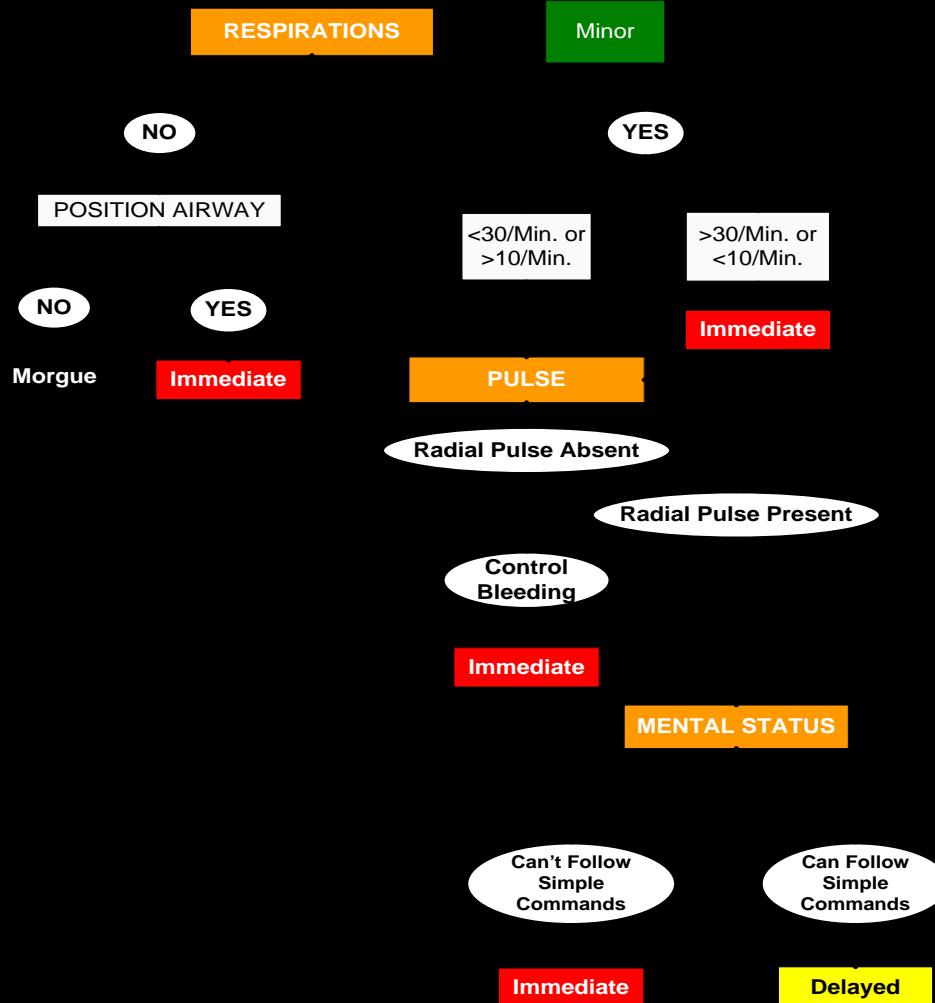
Sign Boards

KANTOR
(Office)

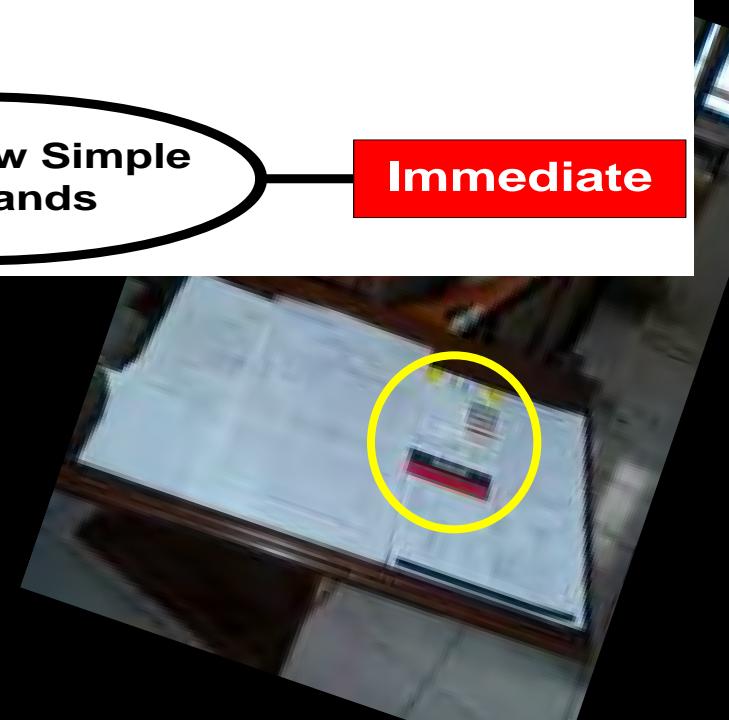
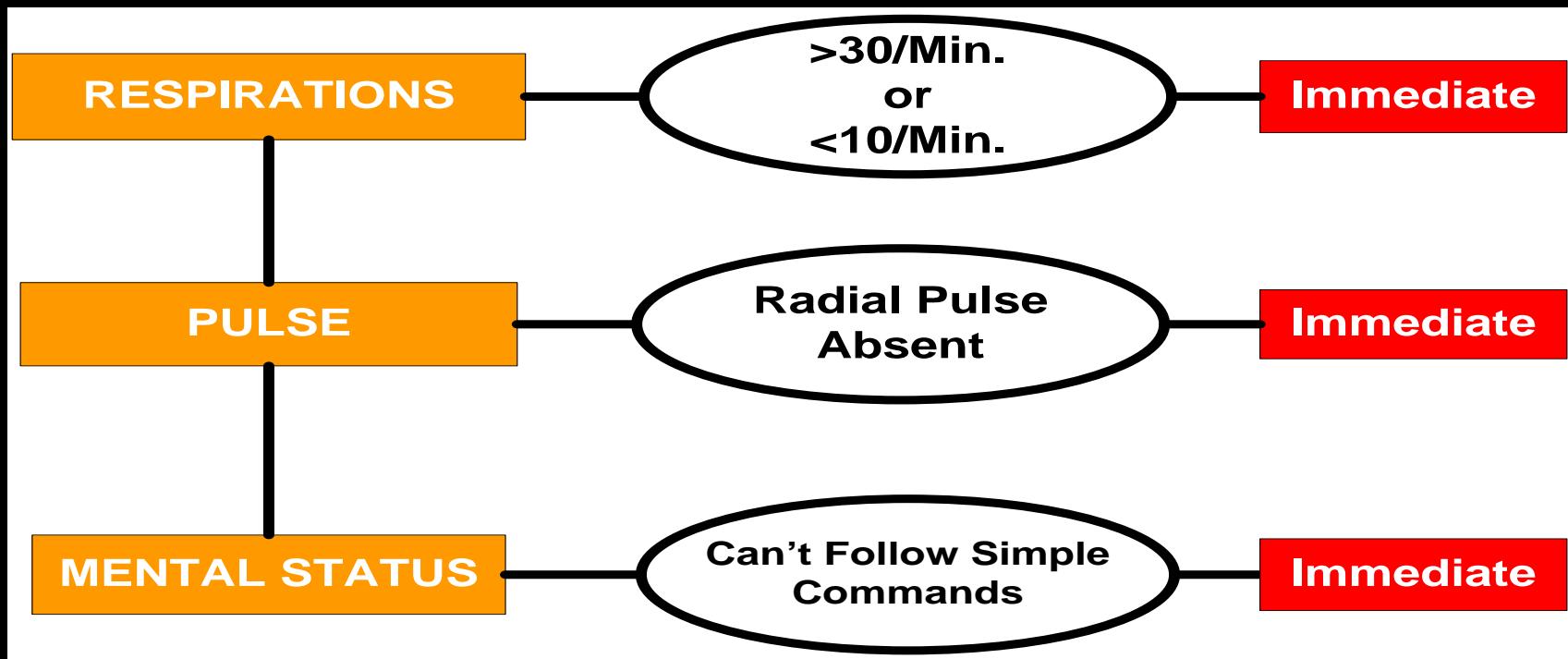


Think globally, act locally, empower with local capacities

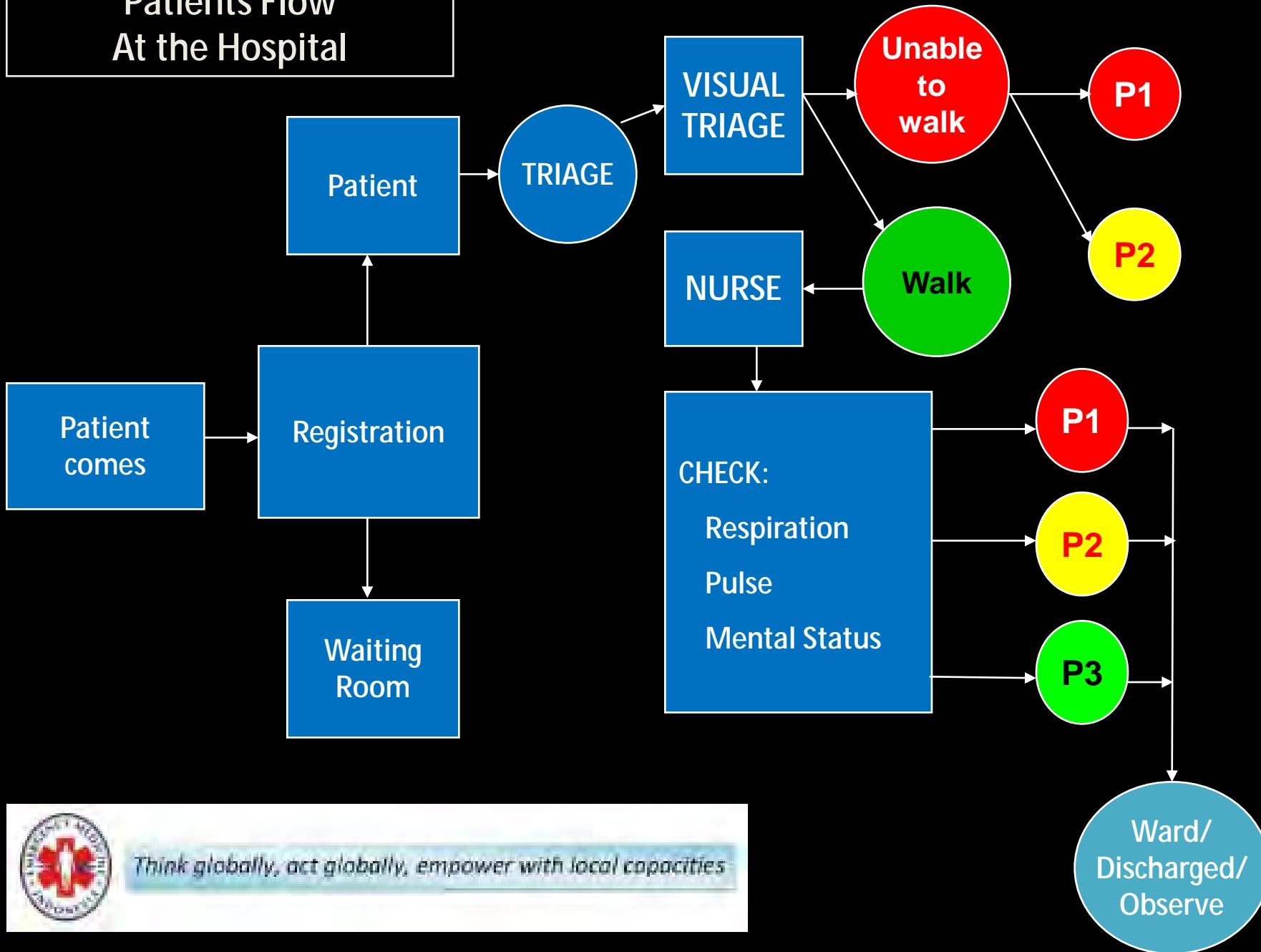
Triage System for Disaster



S.T.A.R.T. (Simple Triage And Rapid Transport)



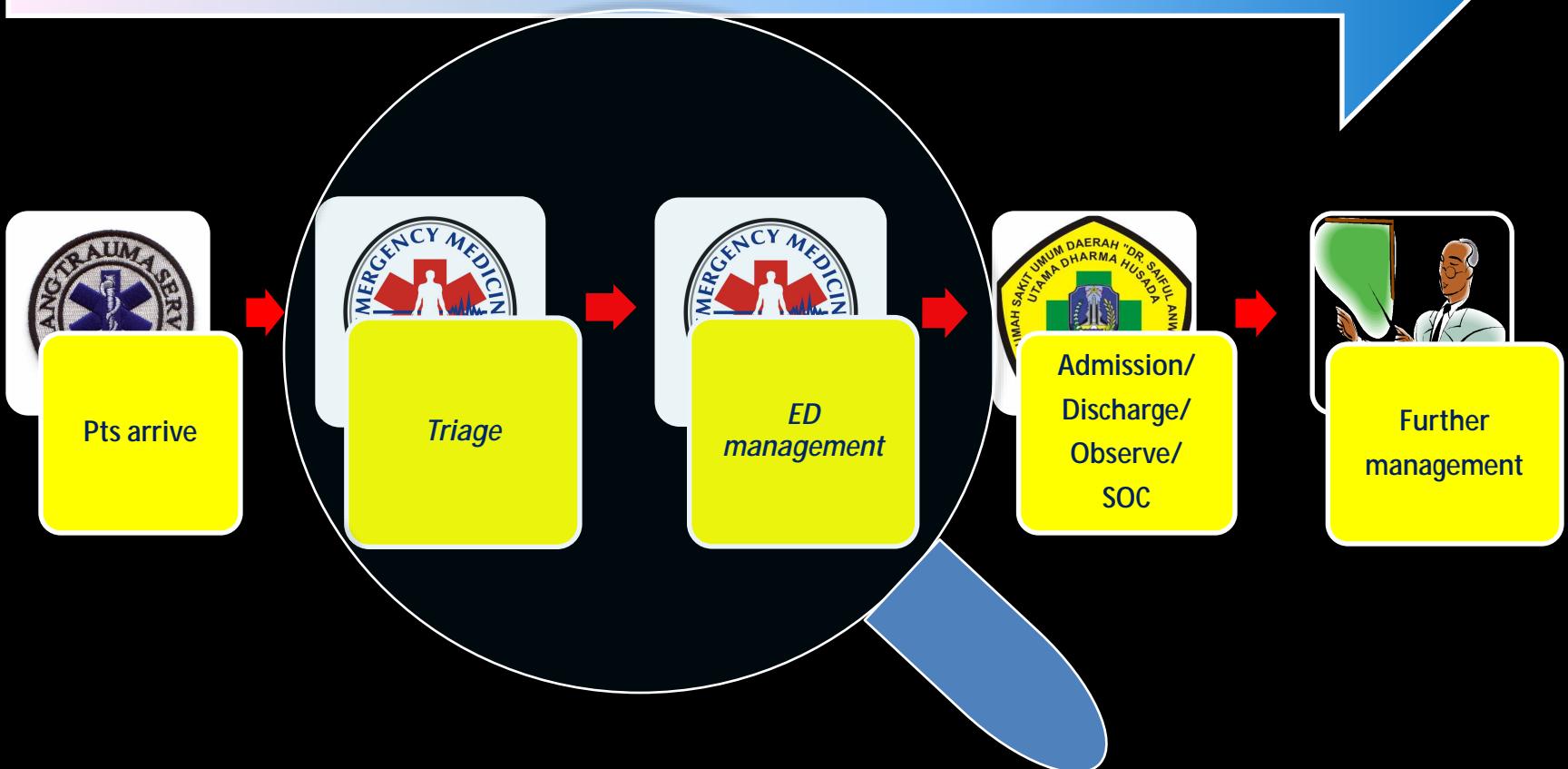
Patients Flow At the Hospital



Think globally, act globally, empower with local capacities

***ED Flow;** we are not only dealing with number of patients but also...*

Response Time



Incident Operation Plan

A. Alasan untuk evakuasi

Untuk memindahkan pasien/personel dari ancaman bahaya atau bahaya yang nyata misalnya kebakaran, ledakan, gempa dsb.

B. Implementasi pada bencana internal

- Seluruh RS diinformasikan tentang pemberlakuan “internal disaster plan”.
- Pasien dipindahkan dari daerah berbahaya kedaerah yang “aman”.
- Keputusan pemberlakuan rencana bahaya internal dilakukan oleh “person in charge”.
- Bila memungkinkan lakukan absensi sebelum, selama, dan sesudah bencana

C. SOP

§ Protap

Patient Referral

Koordinasikan dengan RS lain untuk kemungkinan merujuk pasien, perlu tambahan perbekalan atau tambahan personel.

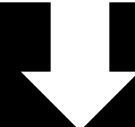
RS rujukan harus diberi informasi jumlah pasien yang dirujuk dan catatan medisnya.

3. Equipment & Tools

- Emergency Drugs
- Portable Pulse Oxymeter
- Triage Tag (P1-P2-P2, different colors)
- Pts Observation Charts
- Non-Rebreathing Masks (adults & Paeds)
- Nasal Canules (adults & Paeds)
- Nebulizer Masks (adults & Paeds)
- Portable Ventilator
- Airway Management Set
- Oxygen Regulator
- Name tag with logo for team personnel
- TED Vest
- Sterile Gel
- Laboratory Labels
- Sticky Labels
- Disposal Bags (Yellow)
- Trays for paperworks flow



Tools



- Rapid Health Assessment
- Sign Boards
- Triage Tag
- Medical Record
- Registration Form
- Observation Chart
- Nursing Progress Note
- Emergency Drug List
- Non-emergency Drug List
- Informed Consent

Medical Record

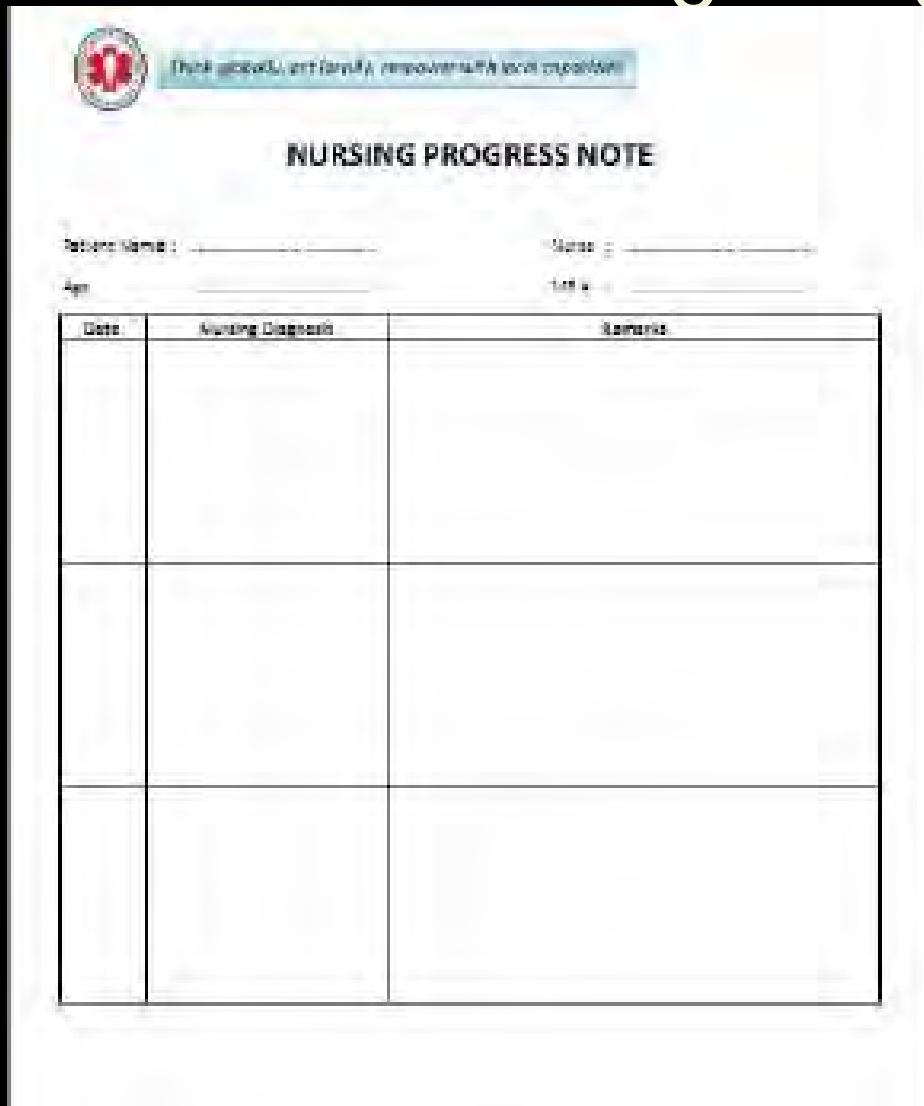
	DISASTER MEDICAL RECORD														
Division of Disaster Medicine Department of Emergency Medicine Faculty of Medicine - University of Sriwijaya, INDONESIA.															
NAME					SEX					EDUCATION					
MAIL					EDUCATION					<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> Tertiary			
ADDRESS					EDUCATION					<input type="checkbox"/> Primary	<input type="checkbox"/> Secondary	<input type="checkbox"/> Tertiary			
TELEPHONE					EDUCATION					<input type="checkbox"/> Home	<input type="checkbox"/> Work	<input type="checkbox"/> Office			
FAX/PHONE					EDUCATION					<input type="checkbox"/> Home	<input type="checkbox"/> Work	<input type="checkbox"/> Office			
HOME	<input type="checkbox"/>		SEX	<input type="checkbox"/>	EDUCATION	<input type="checkbox"/>	EDUCATION	<input type="checkbox"/>	EDUCATION	<input type="checkbox"/>	EDUCATION	<input type="checkbox"/>	EDUCATION	<input type="checkbox"/>	
TIME LOG															
Time Call Received					Time From Scene										
Time Leave					Time Extrication										
Time Arrived at Scene					Time to Base										
POSITION OF PATIENT		PATIENT DISPOSITION		GENERAL STATUS		OBSTETRIC STATUS		CHIEF COMPLAINT (INCLUDES)							
<input type="checkbox"/> Standing		<input type="checkbox"/> Self-Resuscitated		<input type="checkbox"/> Yes <input type="checkbox"/> No		None		<input type="checkbox"/> Headache		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Sitting		<input type="checkbox"/> Patient Refused Care		<input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Fever		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Prone		<input type="checkbox"/> Postponed		<input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Supine		<input type="checkbox"/> Decubitus		<input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Reclining		<input type="checkbox"/> Intubated		<input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Hopped		<input type="checkbox"/> Non-Intubated		<input type="checkbox"/> None		<input type="checkbox"/> Normal <input type="checkbox"/> Abnormal		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
ABDOMEN		INJURIES		CIRCULATION		RESPIRATION		OBSTETRIC		CHIEF COMPLAINT (INCLUDES)					
<input type="checkbox"/> None		<input type="checkbox"/> General		<input type="checkbox"/> Circulatory		<input type="checkbox"/> Normal		<input type="checkbox"/> Headache		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Perforated Gast.		<input type="checkbox"/> Internal		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Normal		<input type="checkbox"/> Chest		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Contaminated		<input type="checkbox"/> External		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Normal		<input type="checkbox"/> Chest		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Other		<input type="checkbox"/> Trauma		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Normal		<input type="checkbox"/> Chest		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	
<input type="checkbox"/> Other		<input type="checkbox"/> Burn		<input type="checkbox"/> Hypotension		<input type="checkbox"/> Normal		<input type="checkbox"/> Chest		<input type="checkbox"/> Chest	<input type="checkbox"/> Back	<input type="checkbox"/> Head	<input type="checkbox"/> Abdomen	<input type="checkbox"/> Gastrointest.	

(courtesy of Dr Ali Haedar)

Registration Form

Observation Chart

Nursing Progress Note



This document is a template for a Nursing Progress Note. It includes fields for patient information, a title, and a data entry grid.

Patient Name: _____ Date: _____
Age: _____ Sex: _____

NURSING PROGRESS NOTE

Date	Nursing Diagnosis	Remarks

Emergency Drug List

Reidi globally, and locally, improving health through education

Emergency Drug List

Reidi Hospital Wasior, Fakultas Kedokteran Universitas Brawijaya

Golongan	Nama Generik	Merek Original	Sifat	Ranjangan	Jumlah
Antidiabetik	Glibenclamid	Glibenclamid	OB/ID	10 mg	20
	Gliclazida	Gliclazida	OB/ID	20 mg	20
Antimikroba	Aztreonam	Aztreonam	OB/ID	500 mg	20
Antiviraling Agent	Aciclovir	Aciclovir	OB/ID	200 mg	20
	Amantadine	Amantadine	OB/ID	100 mg	20
Antiemetik Antihistaminik	Dramamine	Dramamine	OB/ID	10 mg	20
	Dimenfanterol	Dimenfanterol	OB/ID	10 mg	20
	Phenylpropanolamine	Phenylpropanolamine	OB/ID	100 mg	20
Antiparkinson	Benztrapentetetraen	Benztrapentetetraen	OB/ID	10 mg	20
	Carbidopa	Carbidopa	OB/ID	250 mg	20
	Clozapine	Clozapine	OB/ID	25 mg	20
	Chlorpromazine	Chlorpromazine	OB/ID	10 mg	20
	Levodopa	Levodopa	OB/ID	250 mg	20
Antipsikotik	Fluoxetin	Fluoxetin	OB/ID	10 mg	20
	SSRI	SSRI	OB/ID	10 mg	20
Anti-Alzheimer	Donepezil	Donepezil	OB/ID	10 mg	20
	Galantamine	Galantamine	OB/ID	10 mg	20
Antikonvulsan	Carbamazepine	Carbamazepine	OB/ID	200 mg	20
	Phenobarbitone	Phenobarbitone	OB/ID	10 mg	20
Anti-Parkinson	Levodopa	Levodopa	OB/ID	100 mg	20
	Carbidopa	Carbidopa	OB/ID	250 mg	20
Antihistaminik	Cetirizine	Cetirizine	OB/ID	10 mg	20
	Dexchlorpheniramine	Dexchlorpheniramine	OB/ID	10 mg	20
Antidepresan	Imipramine	Imipramine	OB/ID	25 mg	20
	Tramadol	Tramadol	OB/ID	100 mg	20
Antidiabetik	Glipizida	Glipizida	OB/ID	10 mg	20
	Gliclazida	Gliclazida	OB/ID	20 mg	20
Antimikroba	Amikosida	Amikosida	OB/ID	10 mg	20
	Fluksosina	Fluksosina	OB/ID	10 mg	20
Antidiabetik, Antihistaminik	Metformina	Metformina	OB/ID	500 mg	20
	Levoftazida	Levoftazida	OB/ID	100 mg	20
Antidiabetik	Metformina	Metformina	OB/ID	1000 mg	20
	Glipizida	Glipizida	OB/ID	10 mg	20
Anti-Parkinson	Levodopa	Levodopa	OB/ID	100 mg	20
	Carbidopa	Carbidopa	OB/ID	250 mg	20
Antidepresan	Fluoxetin	Fluoxetin	OB/ID	10 mg	20
	Imipramine	Imipramine	OB/ID	25 mg	20
Antihistaminik	Dexchlorpheniramine	Dexchlorpheniramine	OB/ID	10 mg	20
	Cetirizine	Cetirizine	OB/ID	10 mg	20
Antidepresan	Tramadol	Tramadol	OB/ID	100 mg	20
	Clomipramine	Clomipramine	OB/ID	100 mg	20
Antihistaminik	Dexchlorpheniramine	Dexchlorpheniramine	OB/ID	10 mg	20
	Cetirizine	Cetirizine	OB/ID	10 mg	20

Non-emergency Drug List



Having globally competitive, innovative, and efficient capacities

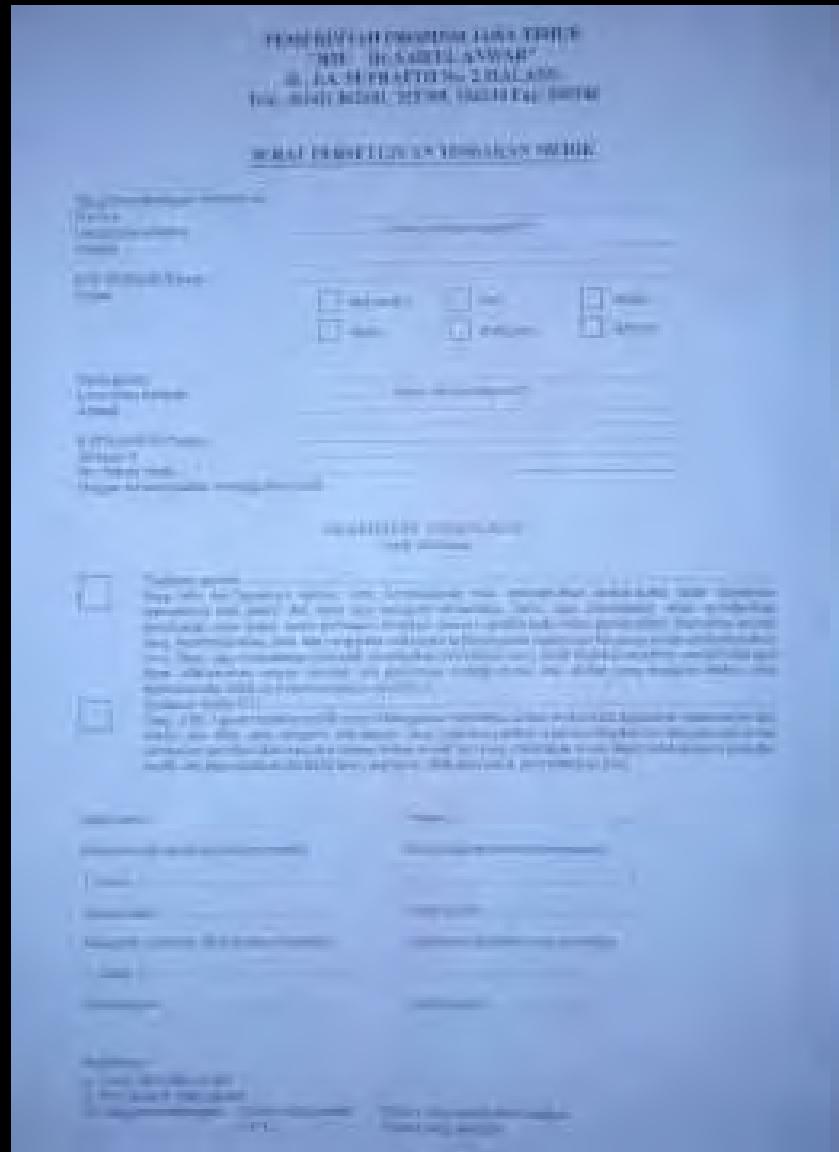
Polyclinic Drug List

Field Hospital TED FKUB

Bantuan FOUS

Obat	Produk dan Nama	Ranjang/Ruang	Kemasan	Jumlah
Antipiretik	Aspirin	Perawatan	Tab.	1000
	Acetaminophen	Perawatan	Tab.	1000
	Paracetamol	Perawatan	Tab.	1000
	Aspirin susu	Perawatan	Tab.	1000
	Aspirin susu	Perawatan	Tab.	1000
	Aspirin susu	Perawatan	Tab.	1000
	Aspirin susu	Perawatan	Tab.	1000
Obat batu Mineral	Alumina	Perawatan	Tab.	1000
	Alumina	Perawatan	Tab.	1000
Antidiarrhoeal	Chloramphenicol	Perawatan	Tab.	1000
	Chloramphenicol	Perawatan	Tab.	1000
Anti Batuk	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
	Cough Syrup	Perawatan	Tab.	1000
Antiseptik	Disinfectant	Perawatan	Tab.	1000
	Disinfectant	Perawatan	Tab.	1000
Antidiabetik	Glucophage	Perawatan	Tab.	1000
	Glucophage	Perawatan	Tab.	1000
Antihistamin	Histamin	Perawatan	Tab.	1000
	Histamin	Perawatan	Tab.	1000
Antikanker	CTM	Perawatan	Tab.	1000
	CTM	Perawatan	Tab.	1000
Antikanker	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
	Aspirin	Perawatan	Tab.	1000
Antikanker	Aspirin Metformin	Perawatan	Tab.	1000
	Aspirin Metformin	Perawatan	Tab.	1000
Obat Batuk	Codeine	Perawatan	Tab.	1000
	Codeine	Perawatan	Tab.	1000
Obat Batuk	Respiratory ACTH 50 mg	Perawatan	Tab.	1000
	Respiratory ACTH 50 mg	Perawatan	Tab.	1000
Obat Batuk	Sixy Dough	Perawatan	Tab.	1000
	Sixy Dough	Perawatan	Tab.	1000
Obat Batuk	Policosanol	Perawatan	Tab.	1000
	Policosanol	Perawatan	Tab.	1000
Obat Batuk	Thiabendazole	Perawatan	Tab.	1000
	Thiabendazole	Perawatan	Tab.	1000
Obat Batuk	Codeine	Perawatan	Tab.	1000
	Codeine	Perawatan	Tab.	1000
Obat Batuk	Aspirin Salicin	Perawatan	Tab.	1000
	Aspirin Salicin	Perawatan	Tab.	1000
Obat Batuk	Aspirin Salicin	Perawatan	Tab.	1000
	Aspirin Salicin	Perawatan	Tab.	1000

Informed Consent



WE NEED TO ALWAYS BE PREPARED!

