# **BEFAST EMT initiative**

Mission Kirikan, Turkey





## Introduction



# History

- Earthquake in Haïti
  - ▶ 200000 deaths in a few seconds
  - ▶ Difficult organization
    - Dangerous
    - Country without rules







#### **Problems**

Chaos

The entire world was sending help

Fieldhospital - african priest

Problems: food /water / sleeping /....

- No rules
- No accountability
  - ▶ No pt. File
  - Quality?
  - ▶ Degree in medicine?

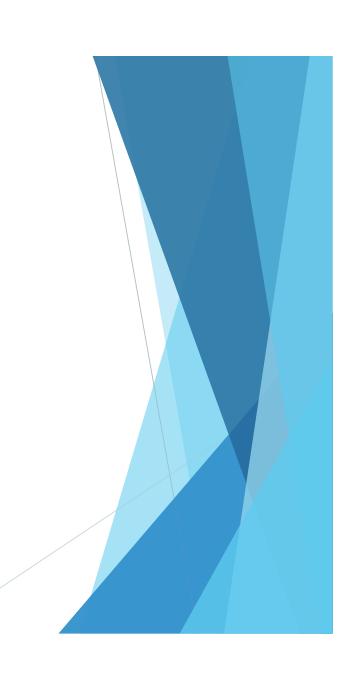








**WHO Solution** 



## **EMT**

► Emergency medical teams

> 911 for the world

► Rules for dissasters

### Rules

- Registration
  - Materials and people
- Qualitielabel, JCI for fieldhospitals
- Test
- License
- PT registration
  - ► Checklist + inform consent
  - Medical file
  - Archive





#### TYPE 1 MOBILE

Provide outpatient initial emergency care of injuries and other significant health care needs



#### **TYPE 1 FIXED**

Same as Type 1 Mobile but work put of a fixed structure and provide up to 12 hours per day of care, 7 days a week.



#### TYPE 2

Provide emergency care including surgery, 24 hours a day.

Deploy field hospitals with atleast 20 beds and can replace and support small district hospitals.



#### TYPE 3

Provide inpatient referral careand complex surgery. Provide large 40-100 bed facilities and can support and replace tertiary hospitals.



#### SPECIALIZED TEAMS

Specialize in specific medical area. May be as small as two three senior specialists, or a specialist facility eg. Ebola or Rehabilitation. Must bring appropriate equipment and supplies with them.

# Belgian EMT 2 Fieldhospital

- > 20 beds
- > Staff: 120 people (dokters, nurses, engineers, logisticians,...
- ► Emergencie departement
- OR + Sterilisation
- **ICU**
- RX
- LAB
- Maternity + pediatrics
- Burnunit
- Infection control

# Logistieks

- Medical suply's
- Water
- Food
- Sleeping
- Electricity
- Satelite connection
- ..















# Earthquake turkey



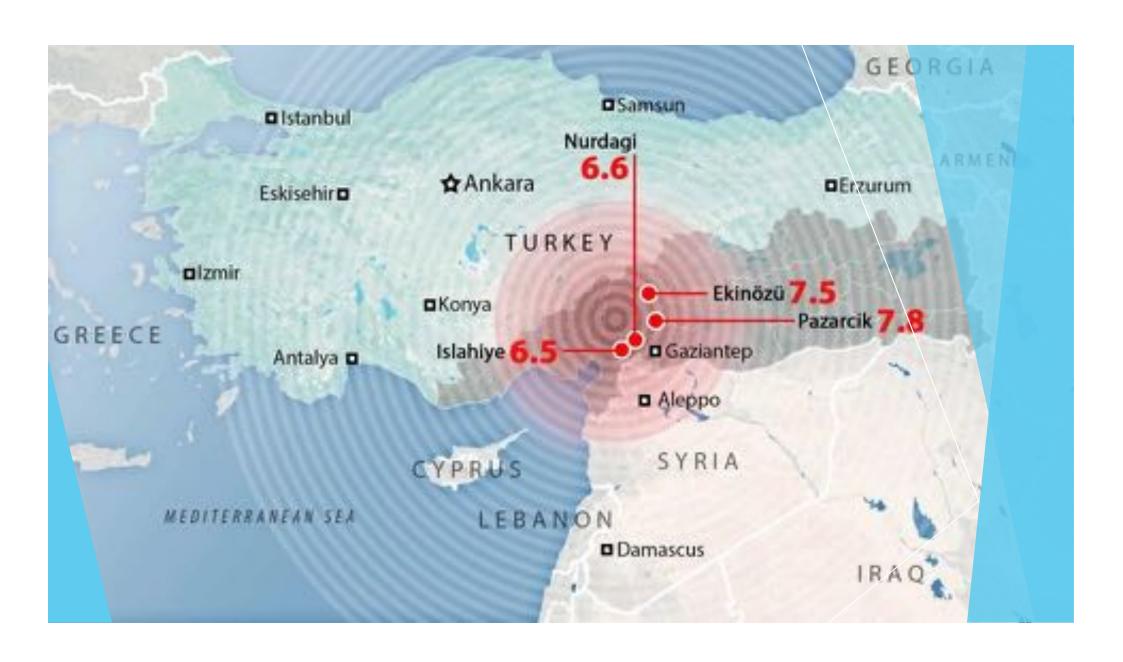




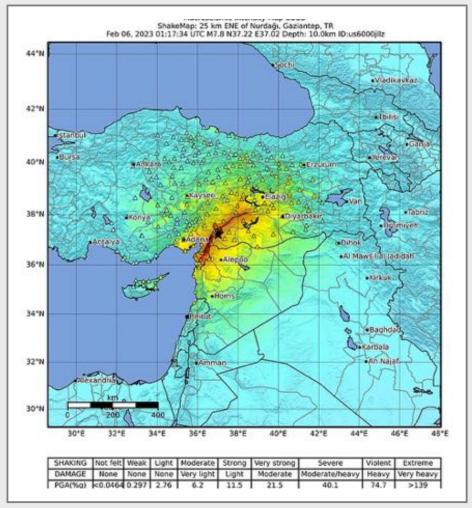












#### **Statistics**

- > 50,096 deaths
- ▶ 115000 injured
- > 345000 flats distroyed
- ▶ 164000 houses distroyed
- > 2,7 miljoen people homeless

#### **EMT Starts**

- Belgium goverment sends a fieldhospital
- Volunteers are called
- Reconnaissance team flys to Turkey
- Kirikan



# Logistical nightmare

- Incomplete hospital
- No medical supplys
- Never tested
- Never transported before
- First flight in 2 days



# Mobilisation of Belguim



- Defence for transportation
- Public healt for suply's
- Homeaffairs for testing, packing,,,,
- Private sector
- ....



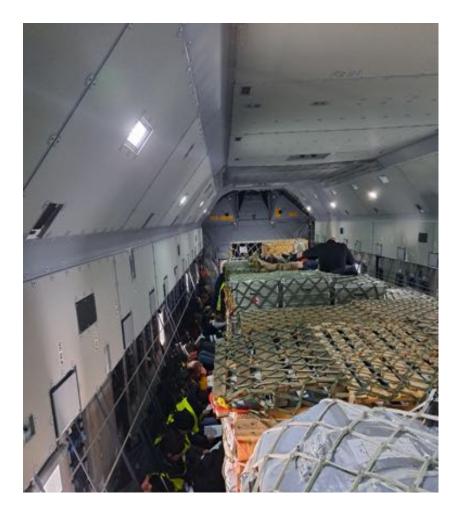


## Result

- First plane left after 2 days
- ▶ 1 plane a day, 9 days
- Hospital operational after 10 days

## Kirikan

- ► City of 60000 people
- largest hospital in the area
- Temperature at night -6
- No water
- No electricity

















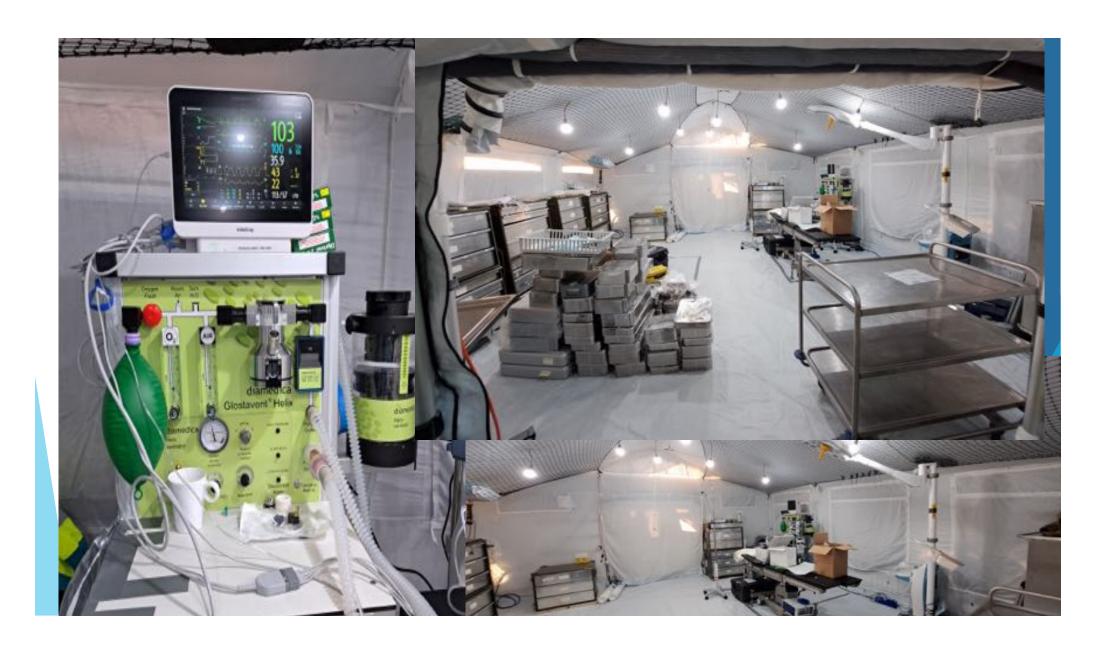














# Type pathologie

- First rotation 1600 pt
- ▶ 160 surgical pt.
- Burns, childeren
- Fracture
- Laparatomie
- C-section
- Wond infections
- Scabies,....

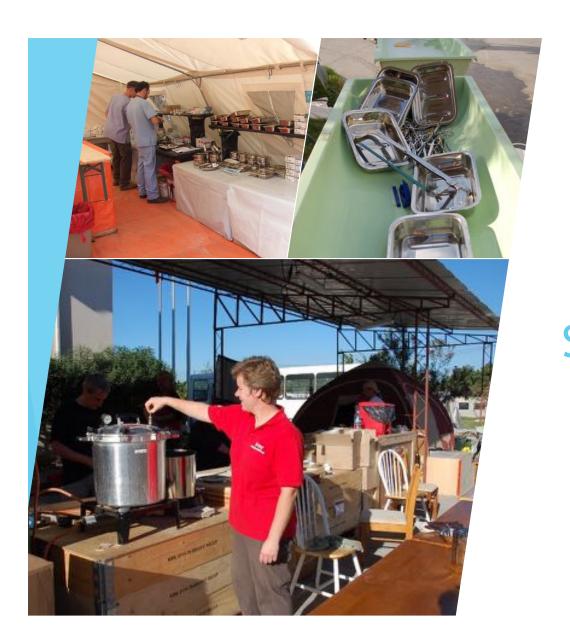








## Sterilization



Sterilization Haïti



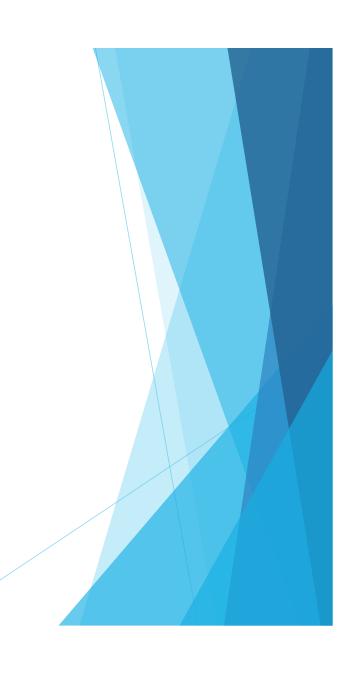
Sterilization EMT fieldhospital





### Problems to solve

- Nothing was tested
- No Sterile sets
- no consumbles (papier, soap, products, peelpack,.....)
- No staff
- We had to start operathing from day 1





### **Solutions**

- Medical emergency team from defence
  - ► Consumbles for 3 days
  - ▶ Sterile instruments for 5 operations
  - ▶ 2 nurses and logisticien used to work in the fiel
- Single use instruments
- Manuals to read in the plane
- Industry



# Murphy's law

### Murphy

- Autoclave crashed with first bowie and dick test
- Washing machine 1 hour later
- ► -5° in the sterilization
- Back up autoclave was between Brussel and Turkey



### **Solutions**

► Heating in the sterilisation 24/24

Called a technician in Belgium

Started in a have day with the africain autoclave

### Robustex autoclaaf

Africa autoclave



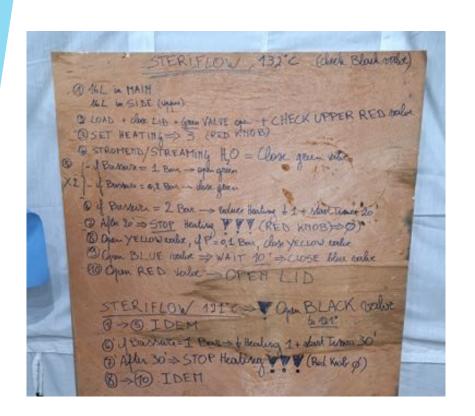




### Advantages / disadvantages

- It works on electricity, gas, wood, oil,...
- Easy
- Manually
- Time consuming
- No safety protocol
- No Quality protocol
- No peal pack



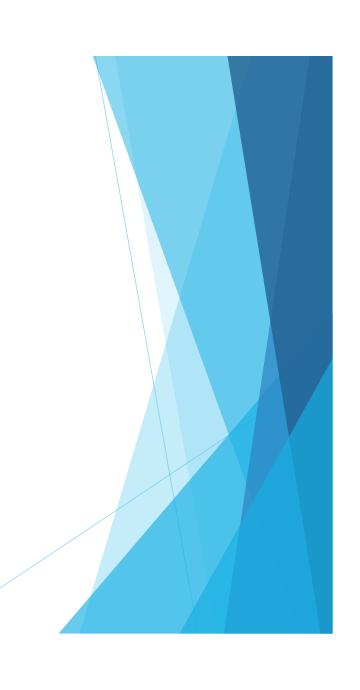


Procedure

### Belgian brewery

- Others made fun of our installation
- ► Tried to shut us down

...



### Result



- Al our test were good
- Only country without sterilization problems
- Asked for help

# Turkey in numbers

- Fieldhospital worked for 22 days
- > 3503 patiënts
- 200 operations
- 8 births
- Used 9 plains
- Transported 180tons medical equipment



