The Role of the Disaster Relief Pharmacist

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Overview

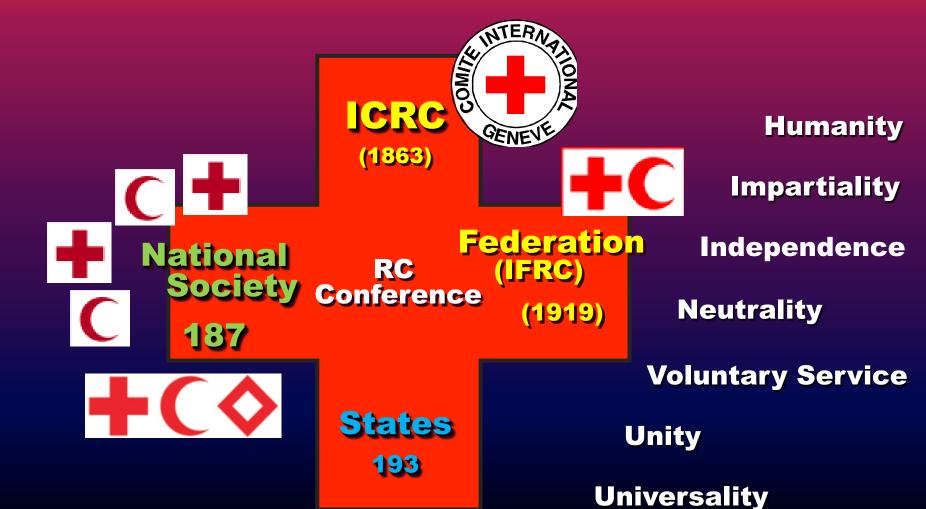
- Red Cross and Red Crescent (RC/RC)

 Disaster Management
- Japanese RC Society (JRCS)
- Disaster response
 - Domestic
 - International
- Disaster Relief Pharmacist



International Red Cross and Red Crescent Movements

Fundamental Principles





- Trained technical specialists
- Uses pre-packed sets of standardized equipment.
- Designed to be self-sufficient for one month and can operate for up to four months

ERUs

- Logistics
- Relief
- IT & Telecommunication
- Water & Sanitation
- Basic Health Care
- Referral Hospital (Field Hospital)
- Base camp







Health Care ERUs in the Health System

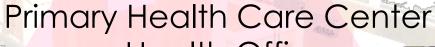


The third level hospital

District Hospital Field Hospital ERU







Health Office

BHC-ERU + JAPANESE RED CROSS SOCIETY



- **General Clinic** (minor surgery, observation)
- **Mother and Child Health**
- Vaccination

Health Units Volunteer

Family, individual





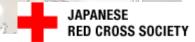


Japanese Red Cross Society (JRCS)

- International network
 - One of 187 National Societies
 - Community based activity
- Domestic network
 - Head Quarters
 - -47 chapters
 - 92 hospitals
 - Designated Public Corporation under "the Disaster Countermeasures Basic Act"







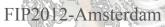
JRCS Domestic Disaster Management

- Medical relief teams
 - Nationwide & locality based network
 - Standardized emergency medical kits in handy-carrying case (100patients for 2 days)



- Standardized equipment
- Specialized medical relief team















JRCS International Medical Relief Response

- 5 core hospitals: International Medical Relief department
 - Specialized and trained personnel: Pharmacist capacity
 - Starter Medical kits: maintained by Pharmacist at the JRC medical center
 - Basic Health Care ERU Equipment and medicines
 - IEHK: Interagency emergency Health Kit
 - JRCS
 - BHC-ERU
 - delegates training
 - Community-based Disaster Preparedness

Emergency Readiness System

Emergency Relief

- •Emergency Appeal
- ERU team
 - Delegates
 - Equipment



- Basic health Care support
- · Community-based healthcare activity
- Psychological Support

Recovery Assistance



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"Disaster Relief Pharmacist" in Disaster Cycle



Pharmaceutical support by Pharmacist in JRCS

JRCS Domestic Medical Relief

Standardized Medical Relief Team domestic Emergency Response Unit



Starter medical kit
Emergency Response Unit





Disaster Relief Pharmacist

Tokyo Metropolitan
Disaster management

EDUCATION

on Emergency Medicines
Individual Health Kit / ERU training

Management of Emergency Medicine Kits by running- stock system



Support for individual delegates as JRCS Pharmacist

- Individual medical kit for International activities
 - Briefing and Debriefing with medicine information
 - Specific medicine information
 - ✓ Malaria
 - PEP (Post Exposure Prophylaxes)
 - STIs
 - · HIV/AIDS







Interagency Emergency Health Kit (IEHK) 2006



IEHK: Interagency Emergency Health Kit



JRCS BHC-ERU Emergency Medical Kit



+JRCS BHC-ERU standardized Medical Kit and Trained Delegates









dERU deployment for the Great East Japan Earthquake 2011



JRCS Pharmacists contribution on the Great East Japan Earthquake Response 2011

On disaster site

- Medical Team: 3-7 days rotations
 - ✓ dERU outpatient clinic ⇒ Mobile clinic ⇒ satellite pharmacy, etc.
- Support to local Pharmacists: 7days rotations
 - ✓ Pharmacy services support at emergency clinics and hospitals.

Outreach support

- Delegates and on site Pharmacy operation
 - Local situation and needs changes/reporting
 - Consumption monitoring for replacement

Medicine supply and logistics Support

- To medical team for the stock replacement
- Challenge for centralized supply chain at local core pharmacy
- Coordination with logistics and the JRC HQs







Disaster Response

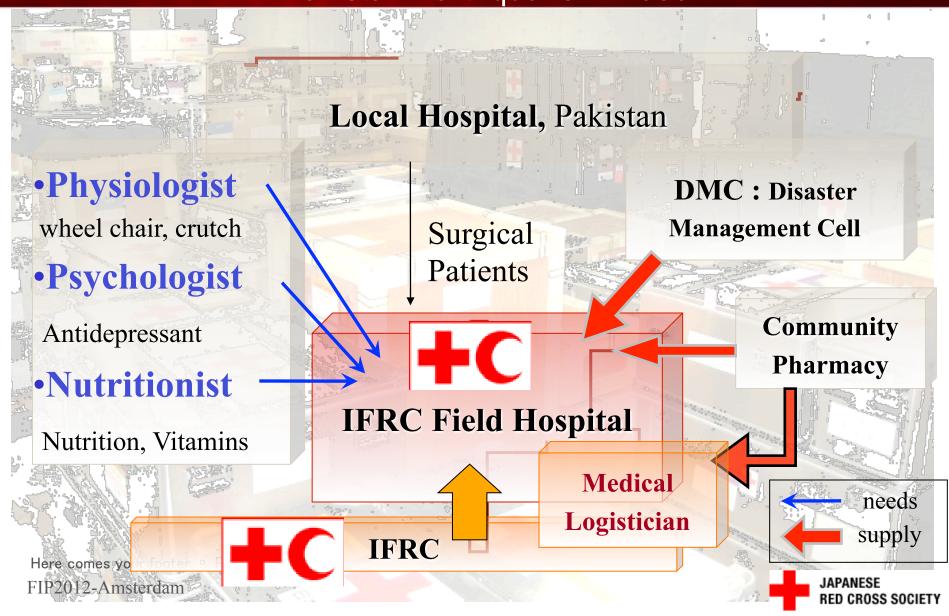
INTERNATIONAL INEDICAL RELIEF





Logistics of Medical Supplies

-Pakistan Earthquake in 2005-



Medicine Supply Medicine has culture...

WHO Guidelines for Drug Donations

WHO Model List of Essential Medicines

- Standardized List
 - JRCS BHC-ERU medical kit
 - Interagency Emergency Health Kit (IEHK)
 - Emergency Item Catalogue (ICRC/IFRC)
- Local procurement



Respect of National standard or Global standard!!

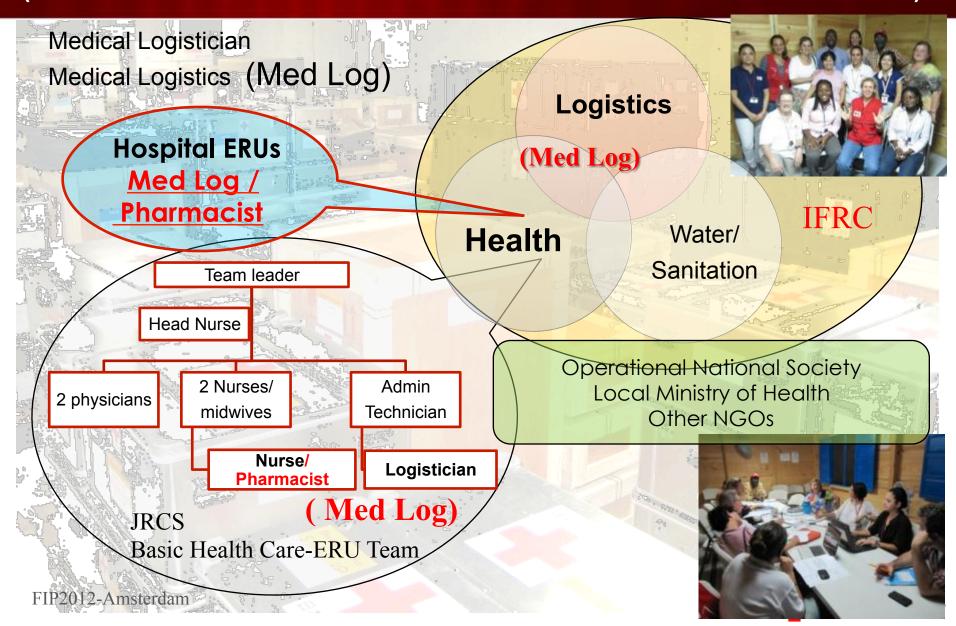




RED CROSS SOCIETY

Medical Logistician in IFRC

(the International Federation of Red Cross and Red Crescent Societies)



Medical Logistician

-Warehouse management : IFRC standard rule

- Organizing, stock control, distribution, documentations

Procurement role

- Quality issues
 - avoid local procurement
 - how to handle batch recall
- Local procurement procedure
- Donations issue
- Import/Export issue
 - Controlled medicine; Ketamine, Diazepam, etc.
 - RDT (Malaria check test) and Malaria medicines





Medical supplies for Medical Store in ERUs

Hospital ERU

Outpatient department (OPD) or only for inpatients

- ✓ Hospital kit + IEHK + additionals
- ✓ Controlled medicines

Basic Health Care ERU (BHC-ERU)

- Clinics (outpatients with observation beds)
- Mobile outreach activities
- ✓ BHC medical modules + IEHK+ additionals

Additionally...

- Cholera kit
- Infusions
- Vaccines / supplies for vaccination campaign







Medicines in Emergency

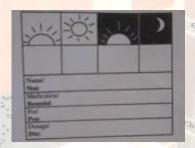
Donated medicines from all over the world

Local medicines





- Global standard
 - Essential medicines
 - Interagency Emergency Health Kit (IEHK)
 - Pictogram of medicine bag





- Respect local culture
- Try to find the local essential medicine list and/or guidelines



Handle with Donated Medical supplies









Challenges for Medicines Storage on-site

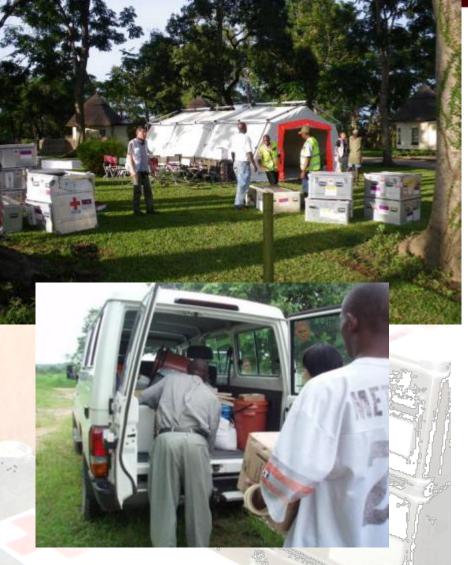
- Tents: 3x6, 6x6, 6x9(m)
- Shipping containers
 - Double roofing with ventilation
 - Only in areas with modest temperatures
 - ↓ Temporarily set up then improve
- Existing building
 - Room with key lock



Examples of Medical Store in staff accommodation

- Security guards
- during day and night
- Outreach activities
 - for cholera operation





RED CROSS SOCIETY

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Initial set-up and locally built shelving



Arrangements of ERU boxes



Stock Management of ERU

 Set-up centrally managed storage system by supporting nurses











Clinic Management of ERU with Local Staff









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Pharmacy Management

Working with Local pharmacist/
Technician/ Pharmacy assistant



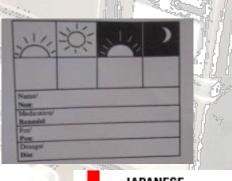
Provide medicine information to local staff













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Flexible stances in the field

- Cooperation with local facilities
- Management of supplies and local staff
- Challenge for the community health









Challenges for Community Health

-Anthelminthic Treatment Program

- Planning
- Distribution and records
- Information to medical staff and patients
- Side Effects Monitoring

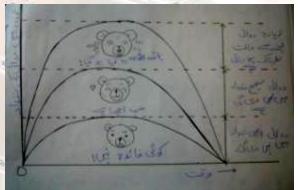


Educating Children on Proper Medicine Use

lecture and brochure in local languages

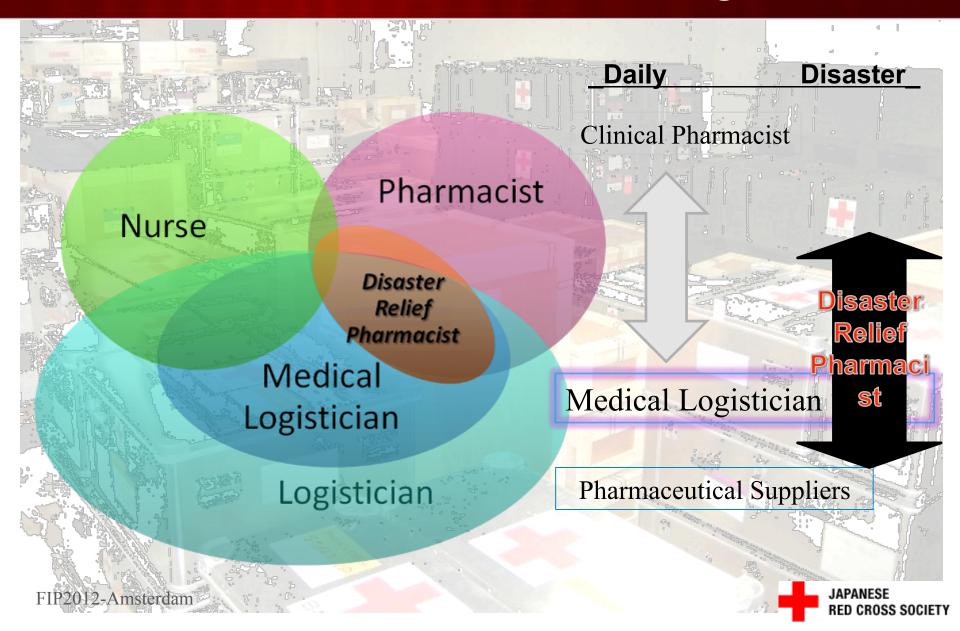


- 1. Medicine and snack
- 2. Medicine form
- 3.Dosage by ages
- 4. Blood concentrations and efficacy
- 5. How it works in your body
- 6.Schedule and cautions

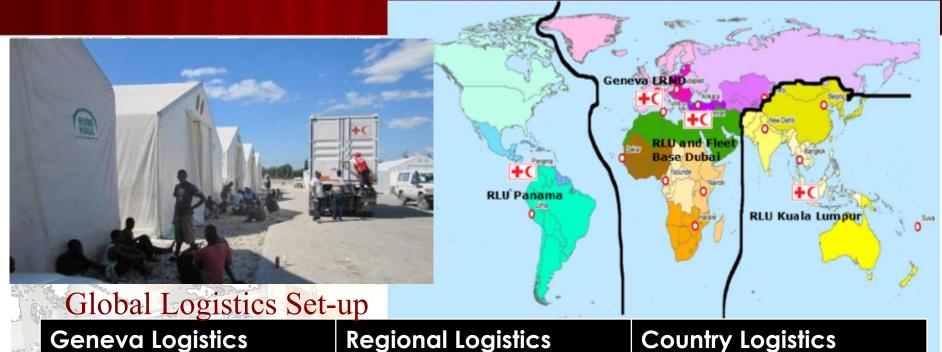




Disaster Relief Pharmacist- Medical Logistician



IFRC Global Logistics Set-up

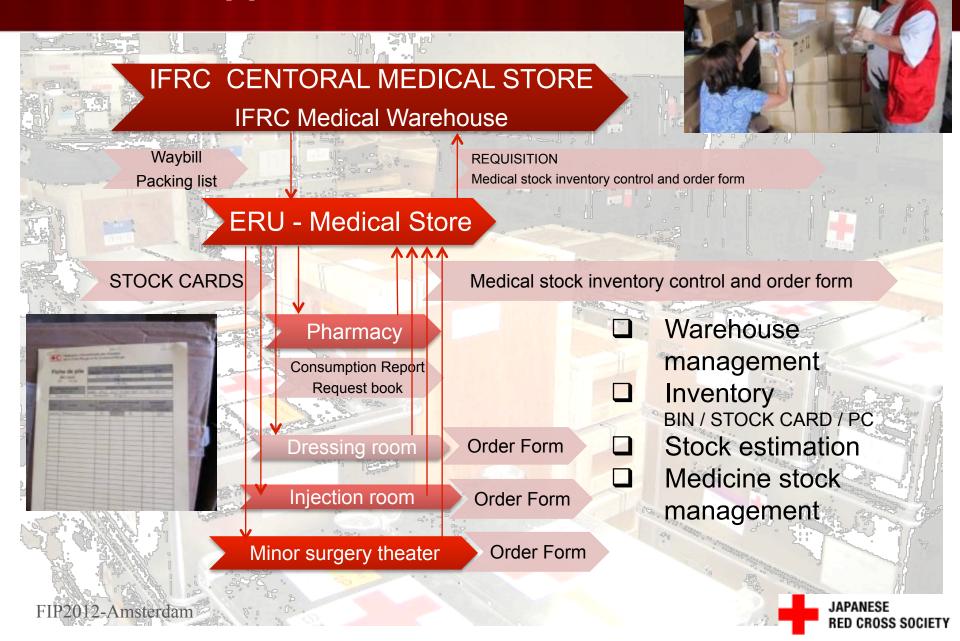


Geneva Logistics Regional Logistics Strategy / Planning Mobilisation Coordination Procurement Funding Coordination HR/Training/ERU Transport Fleet services Information systems Fleet Field logistics set-up **HPC** Training Frame Agreements Logistics network Reporting & analysis Reporting & analysis Medicine procurement

Warehousing Local procurement (except for medicines)

Reporting

Medical supplies flow-chart



Disaster Management Information System - DMIS:

Example on Logistics!



Mobilisation table for current operations

The Mobilisation table is a tool which allows Federation logistics to monitor the response to an appeal and to see in one look what are the outstanding needs.

as the optimized use of scarce resources acquires a crucial significance in a humanitarian context: it means saving lives and diminishing the impact of communicable diseases due to inhuman living



Health

WatSan

Shelter

The role of Medical Logistics



- Global standard
- Local standards
- WHO strategies
- Disaster Medicine
- Culture of Medicines
- Language
- ☐ Liaise with Logistics
- ☐ Ensure the warehouse, medical pharmacy is set up and managed
- ☐ Organize distribution of supplies
- ☐ Monitor consumption and estimate replenishment
- ☐ Train and supervise local staff on management of medical supplies
- ☐ Ensure correct disposal of expire/
 unusable medical supplies according to local
- legislation and/or WHO guidelines
- ☐ Disseminate the importance of Quality assurance and issues related to risks in local purchase

Health
/ Medical
activity

Experiences

Work in close cooperation with Health and Logistics teams

 Medical Logistics

Right quality

Information

- Right quantity
- Right cost
- Right time
- Right place

Logistics

Need to be involved from the beginning



The Role of Disaster Relief Pharmacist in Disaster Preparedness

Revise the medicine list

- Convenient, less side effects and update
- Radical improvement of the stock
 - Running-stock system
 - PC data base, format of pharmaceutical inventory
- Capacity buildings by communications
 - Aware specificity of Disaster Medicine
 - Developing disaster operation plans
 - Share expertise in preparing
 - Management skills
 - Counseling skill



3 Competencies of Disaster Relief Pharmacist

Universal

- International Standard
- WHO donation guideline
- Essential Medicines
- Disaster medicine

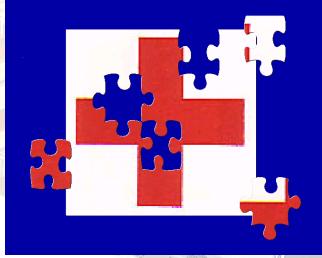
Professional

- Expertise of pharmaceuticals
- Capacity building

Interactive & Proactive

- Communication
- Flexible stances
 - Medical logistician
 - Range of activities for disaster operation







Japanese Red Cross Medical Logistics the 1st WORKSHOP in Tokyo

- ✓ Date: May 11-13, 2012 (3 days)
- ✓ Facilitator: Ms. Selma BERNARDI, IFRC MedLog
- ✓ Organizer: Ms. Eiko KOBAYASHI, JRCS Pharmacist
- ✓ Participant: 6 Pharmacists in JRCS hospitals
 - + 2 pharmacists observer



AIM:

- Enhance Pharmacists' knowledge of Federation logistics
- procedures
- ➤ Increase JRCS pool of Pharmacists with knowledge in Medical Logistics
- Introduction to medical logistics procedures for future deployment both with JRCS ERU and Federation









Thank you!!

