



IAEA

60 Years

Atoms for Peace and Development

IAEA Roles in Preparedness and Response for a Nuclear or Radiological Emergency

Webinar on Medical Preparedness and Response for a Nuclear or Radiological Emergency

IAEA's IEC - WHO

24 February 2017

Ramon de la Vega

Emergency Preparedness Coordinator, IEC, IAEA

Incident and Emergency Centre (IEC)

Global focal point
for emergency preparedness and response
for nuclear and radiological safety or security related emergencies,
threats or events of media interest
and
world's centre for coordination of international emergency
preparedness and response assistance



IEC
Incident and
Emergency Centre

Incident and Emergency Centre (IEC)

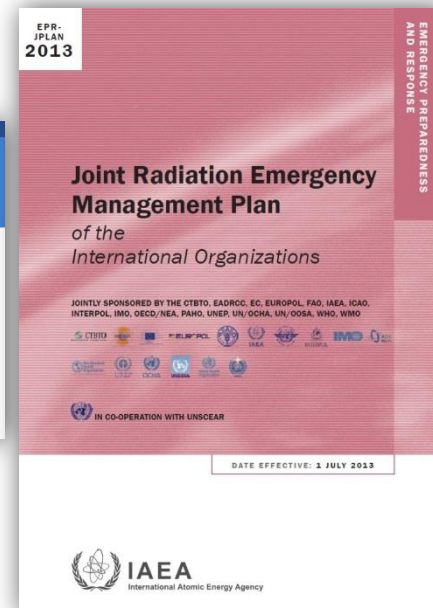
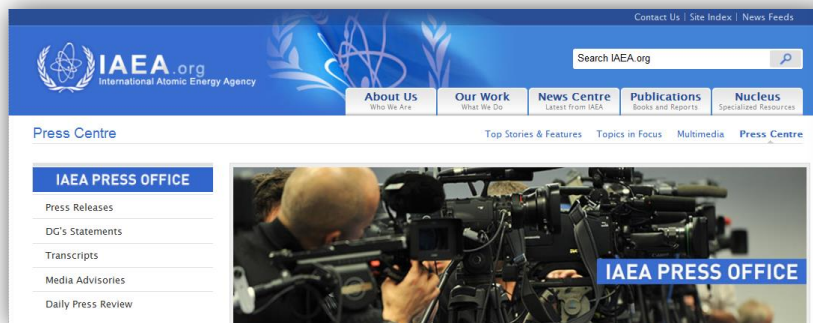


"Effective national and global response capabilities are essential to minimize the impacts from nuclear and radiological incidents and emergencies and to build public trust in the safety and security of nuclear technology. The Agency's **Incident and Emergency Centre (IEC)** is the global focal point for international preparedness and response to nuclear and radiological safety or security related incidents"

Yukiya Amano
Director General of the IAEA

Roles and Responsibilities in Response

- Notification and official information exchange: USIE
- Provision of public information
- Assessment of potential emergency consequences and prognosis of possible emergency progression
- Provision of assistance on request: RANET
- Coordination of inter-agency response: IACRNE



Response Structure



Examples of IEC Responses

Response to the accident at TEPCO's Fukushima Daiichi Nuclear Power Plant, 2011

- Full Response Mode – March 11- May 3, 2011
 - 54 days (24 h)
 - 230 IAEA's staff worked in IEC in shifts
- Basic Response Mode
 - May 4 – December 21, 2011
- Normal/Ready Mode
 - Since December 21, 2011
 - Liaising with PM Japan and counterparts in Japan related to assessment matters and monitoring data
 - Continuing to prepare/publish Status Summary Reports **including IAEA assessment**



Examples of IEC Responses

Assistance Mission to Trinidad and Tobago, 2012

- 223 radiotherapy patientes were overexposed between 2008 and 2010
- Assistance request for medical evaluation and assessment



Member State since 2012



Examples of IEC Responses

Industrial Radiography accident in Peru, Chilca, 2012 - 2013

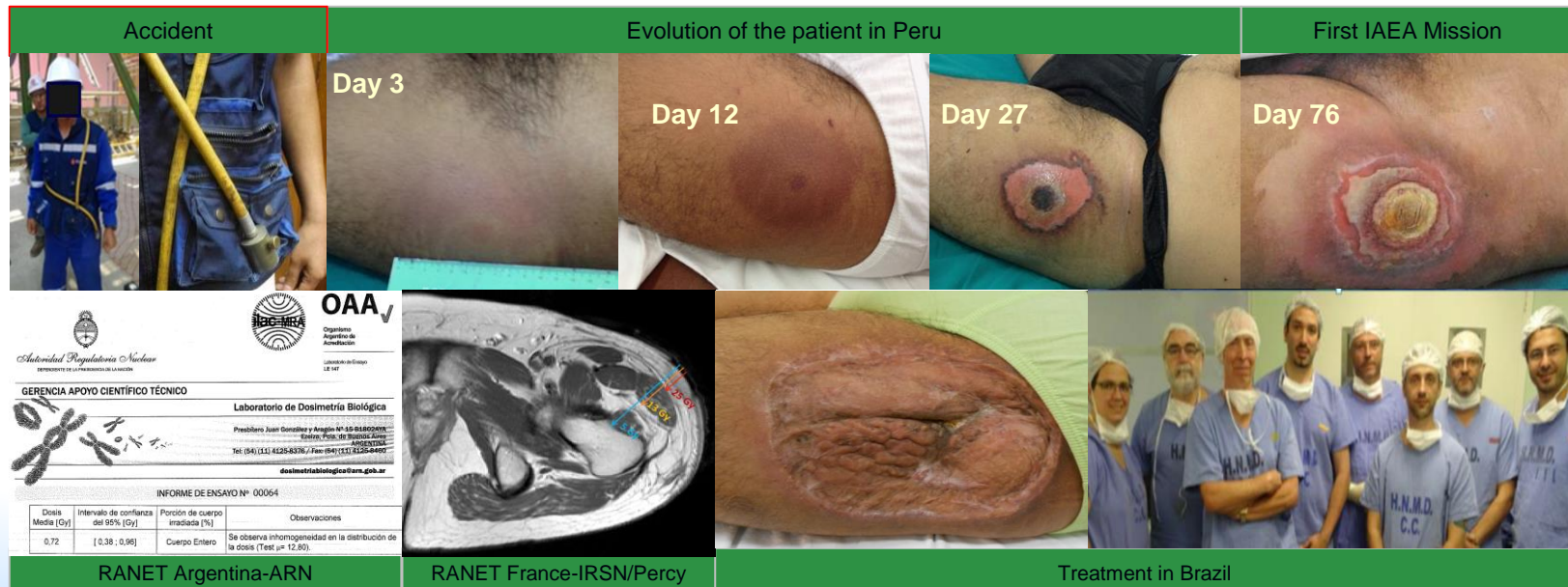
- Three requests for assistance under Assistance Convention for dose reconstruction, medical advice and treatment, and medical follow-up
- IAEA assistance mission, RANET team from France
- Treatment of local injuries due to overexposure provided in France and Chile



Examples of IEC Responses

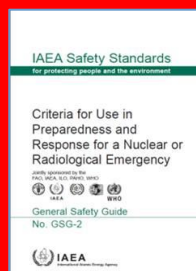
Industrial Radiography accident, Peru, Ventanilla-Callao, 2014

- 2 requests for assistance under the Assistance Convention
- IAEA assistance mission, RANET team from France, treatment in Brazil
- 2nd successful treatment applied in Latin-America with Inter-regional participation, 9 institutions in 4 countries, coordinated by the IEC



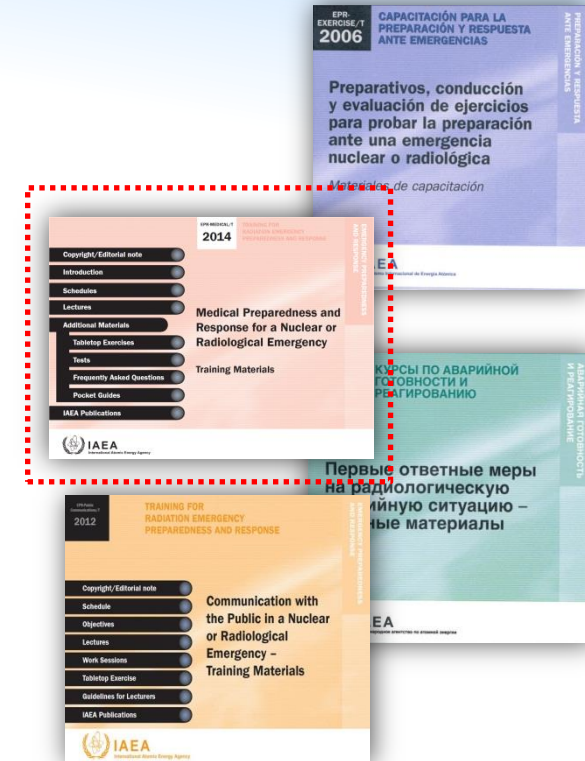
Roles and Responsibilities in Preparedness

- Emergency Preparedness and Response (EPR) Safety Standards, guidance and tools
- EPR capacity building
- Emergency Preparedness Review (EPREV)
- IAEA's in-house and inter-agency preparedness



Capacity Building in EPR (1)

- Strategy: Train-the-Trainers approach
 - National follow-up courses encouraged
- Standardized training materials
 - Ensures compatibility of approaches
- New training tools
 - E-learning, portable digital tools
- Emphasis on practical aspects
 - Functionality, drills, exercises
- IAEA training materials in UN languages available for Member States' application



In the period 2013 to 2015, more than 570 healthcare professionals from 93 Member States received training on medical EPR for nuclear or radiological emergencies

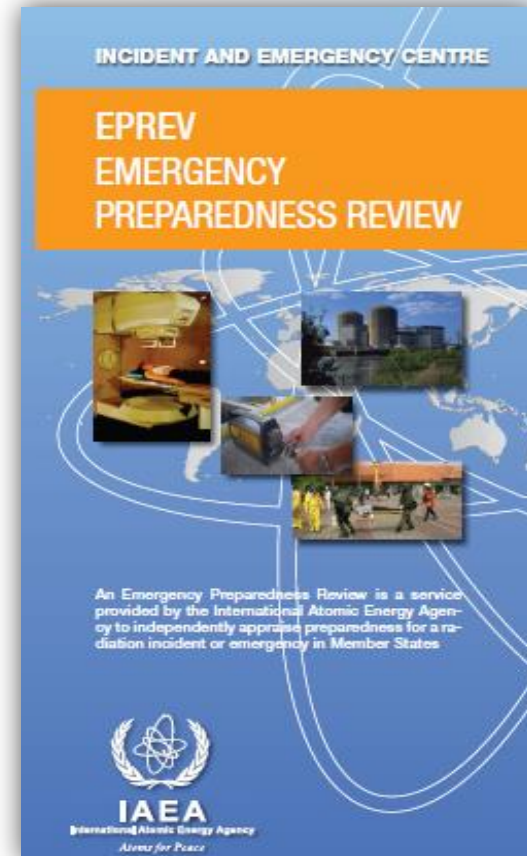
Capacity Building in EPR (2)

- IAEA RANET Capacity Building Centre (CBC) in Fukushima Prefecture
- 2013-2016: national and international workshops on different EPR topics



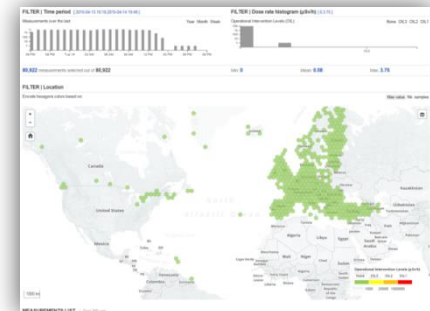
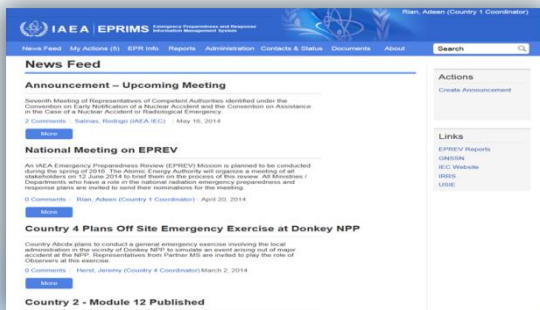
Emergency Preparedness Review (EPREV)

- To independently appraise national capabilities in emergency preparedness and response
- Service since 1999
- 43 missions conducted



IEC Information Source

- **EPRIMS** (Emergency Preparedness and Response Information Management System): improve access and promote EPR information exchange
- **EPNET** (Emergency Preparedness Network): strengthen transparency and information exchange
- **IRMIS** (International Radiation Monitoring Information System): share routine and emergency monitoring data





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Thank you!