Metropolis the First Italian nonConventional Biological Drill

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32685 DEATHS IN 2014

80% INCREASE

>11 COUNTRIES

IRAQ
NIGERIA
AFGANISTAN
PAKISTAN
SYRIA

GTI report 2016
Attacks in Western countries accounted for a small percentage incidents, representing 4.4 per cent of terrorist incidents and 2.6 per cent of deaths over the last 15 years, until 2015. In 2015 – 2016 years we assisted in a progressive escalation on terrorist attacks in Europe due to ISIS/ISIL attacks, starting from France, and Belgium of particular concern.
To date terrorists and criminals seem to remain interested in using weapons that are easily available, not too complex to operate, and which have direct and lethal effects. These three factors – availability, uncomplicated knowledge and effectiveness - encourage terrorists to use conventional firearms and explosives.

Although CBRN materials remain highly attractive to terrorists, they are difficult to acquire, transport, handle and deploy without particular scientific knowledge and technology.

In recent years, jihadist terrorists and their sympathizers have regularly expressed threats involving CBRN materials in their propaganda.
EMS and HOSPITAL PREPAREDNESS AND RESPONSE

- TREATMENT LARGE NUMBER OF CASUALTIES
- RECOGNITION OF NON CONVENTIONAL ATTACKS
- EARLY DETECTION
- RAPID RESPONSE
- DECONTAMINATION
- IMPLEMENT HOSPITAL PLANS
- BED SURGE CAPACITY
- ......
AREU - Azienda Regionale Emergenza Urgenza
Regional Emergency Service Company

- AREU is instituted to develop the integration of the intra and extra hospital healthcare emergency, to ensure a uniform and effective quality in territorial emergency rescue, to coordinate the transportation of organs, tissues and teams in making harvesting and transplantation, to acquire the assets of exchange and clearing of blood and blood components.
- AREU takes care of 10 Million people; it’s organized like a regional public service corporation.
AREU the Regional Emergency Service Company for Lombardy district, promoted a new pilot Model of Public Safety Answering Point During Emergency (PASP), applying a new emergency Number “1.1.2.” with new IT technologies format. Now the emergency telephone number for emergency medical services in Italy is 118. The startup of trials on the European Emergency Number “112” was announced on 2010 in Italy, the Region Lumbardy is the first region in Italy that applied the new emergency number.

The 112 European Emergency Number is a cutting-edge service, meeting the EU standards required for creating a PASP, in order to guarantee fast access to emergencies services, with a simplified model of access in making call, and security in the response. Calls are managed centrally by a single call center which sorts them and sends them towards Police, Firefighting Service or EMS.

All citizens can download the app “Where are U” from their smartphone that allows to be localized with satellite technology.
The management of mass casualty incidents (MCIs), especially non-conventional, due to a possible release of Chemical, Biological or Radiological substances (CBRN), require that all institutions involved have the appropriate knowledge, technical and organizational skills.
Counterterrorism Interforce Exercise
“Metropolis 2016 “ Milan, Italy
“Metropolis 2016” - May 18th

The Interior Ministry and The Prefecture of Milan

Local Police Department
Lombardy Region- Public Health General Direction
Military Army Corp of Carabinieri Provincial Command
Fire Brigades
AREU for the health medical response and the “112 “- Public Safety Answering Point During Emergency (PASP)
First Aid Units (U.O.P.I & A.P.I.-S.O.S.), device “ first responders “
U.N.I. s- Counterterrorism Task – Unit (TU-AT)
Provincial railways police
Air border police
Local Police
To test the procedures contained in Counter-terrorism and civil defense planning

Simulation of multiple scenarios in short temporal sequence

To validate technical activities for command posts and live operating procedures
• To test the effectiveness of the intervention model and capacity of the Emergency Management Coordination Center at the Police Headquarters in Milan
• To test the preparedness and response of the Control Operative Center of the Prefecture
• To test the system for a Bioterrorism alarm
• To test the Public Safety Answering Point During Emergency (PASP) “1.1.2.” as Dispatch Center during MCIs and the activities of other Central / operational rooms involved in the operative management of Counterterrorism response
Metropolis 2016

- Confidentiality in planning
- Blind (no notice) Exercise
“Scenario “Gerusalemme”

- Underground transport - Line 5 (Lilac) - Simulation of a terrorist attack with the discovery of a suspicious envelope within the convoy, with subsequent explosion and dispersion of biological agent suspect for anthrax (Civil Defense CBRN scenario).
Scenario Gerusalemme Activation
Underground Line n. 5 Gerusalemme Station
“Scenario Stadium “

Simulation of a Terrorist attack during an important international football match in the presence of heads of government, with hostage-taking.
AREU Mission

To test the MCI response

Triage of Victims on the field/scenarios

To manage a Bioterrorism alarm and event

Management of Decontamination Procedures on the field and Use of DPI

Activation of Maxi-Emergencies procedures on the field and hospital’s activation

Activation of Hospital Sacco as National Referral Center for Bioemergencies and Bioterrorism

Fast sending of equipment and rescuers

Victims transportation to hospitals

Coordination of activity of NUE 112 Public Safety Answering Point During Emergency (PASP) “112” as Dispatch Center
Metropolis and AREU

- 100 victims
- Tags simulating patients
- Hospital’s alert and activation (11)
- UNISADEC activation
- Luigi Sacco Hospital for Bioterrorism Emergencies
Gerusalemme Scenario- 2.30 H exercise

• Start exercise at 20.27 pm of 18 May 2018
• Many calls to 1.1.2. PSAP to communicate a blast explosion of an envelope in the subway (from some citizens in subway)
• h.20. 31 pm 1.1.2.- NUE start to alert police and other institutions, Fire Brigades e 118
• H 20.32 police, carabinieri, and fire brigades (activation of CBRNE Unit) + financial police
**EXERCISE**

- **20.38 pm** arrival of all police vehicles, info: a blast with release of dust in the train of the subway at Gerusalemme station. The prefecture is informed on the event.
- **Boundary delimitation**
- **The prefecture start to collect INFO from the forces involved to inform Ministry of Interior**
- **Simultaneous INfo to Operative center rooms**
- **Fire Brigades arrival on the site, inspection of the site, communication with Operation center**
- **At 20.42 pm** the first ambulance on the site (Italian Red Cross)- 4 rescuers with DPI, start evaluate the first patients (tags) to the train arrival, call for more aid/ambulances
EXERCISE

• 21.05 pm arrival on the site of Medical Director Coordinator of Maxi-emergency and Medical Triage Director
• 21.06 BCR AREU Coordinator start coordination with other forces
• 21.06 Luigi Sacco Hospital was alerted for release of suspicious substances for biological agent (anthrax ?)
• 21.29 pm request for activation of UNISADEC DECON - activation
“Stadium Scenario” - Activation

- **H 21.48 pm**  Il alert at 1.1.2./NUE huge explosion Meazza Stadium, with a lot of casualties and dead people – Activation Stadium Scenario
  Police forces declared a possible terroristic event, activation of alpha plan
  Also the Gerusalemme Scenario was declared a terrorist event
  Arrival on the site of Regional NBCR Unit- security of the scene, rescue and confinement of victims
- **H 21.49 pm**  the prefect active the provincial anti-terrorism plan
  Stadium Scenario: intervention of UOPI/API-SOS, police Antiterrorism Unit and Carabinieri Army Forces
  Scenario Gerusalemmme: 90 victims to decon for unknown agent- activation of regional plan for NBCR.
**EXERCISE**

- 22.11 pm Scenario Geruslamme: delimitation RED Zone + Tents of DECON technical
- 22.25 pm Scenario Gerusalemme: FB staff with Protective Equip, 10 people identified, data collection in the subway (AREU identified 4 yellow pats and 7 green)
- 22.30 pm Green patients identification and containment in the subway and accompanied in DECON area
- NBCR arrival on the site of patients
- ......

22.57 Fire brigades: positive response of samples envoyed for Bio lab analysis for anthrax, start procedure of DECON with AREU, with deployment of UNISADEC tents for DECON
EXERCISE

• 23.15 start DECON 2 yellow codes after that envoyed in Hospital for care of open wounds
• 23.38 after the confirmation of a biological agent anthrax in the samples, start DECON procedure and Sending pts for prophylaxis to Luigi Sacco Hosp.
• 22.57 stop the exercise
RESULTS

Many hospitals were involved, in particular one as National Referral Center for Bioterrorism (for the non-conventional part of the exercise) and another one for the treatment of conventional mass casualties.

• The exercise was organized with the simulation of a biological attack in a subway station of Milan during the night and simultaneously a terrorist attack at the football stadium, with more than 100 victims and hostages.
• Pre-Hospital decontamination procedures were performed and biohazard countermeasures were tested on the field and in hospital.
• It was the first time that in Italy that was organized a metropolitan non-conventional drill, with a multitasking multidisciplinary approach, underlining the importance to measure the performances and the adequate skills of all entities involved in this exercise.
CONCLUSIONS

The result of exercise was positive.

In particular AREU underlines:

• The Timely and adequate response of EMS service and 1.1.2
• Proper and on time activation of the DECONTAMINATION UNIT – UNISADEC
• Good coordination with other institutions involved in exercise

• Underline also:
• the need of ameliorate the correct use of DPI
• The need to better identify the personnel deputy for decontamination with adequate identifying clothing.
• To better test the hospital’s response, not completely tested for problems related with the time of exercise and the use of tags instead that actors.