

## EMERGENCY PLANNING IN CASE OF CBRNE EVENTS: AN INNOVATIVE METHODOLOGY TO IMPROVE THE SAFETY KNOWLEDGE OF ADVISORS AND FIRST RESPONDERS BY A MULTIDISCIPLINARY TABLE TOP EXERCISE.

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### ABSTRACT

Nowadays Chemical-Biological-Radiological-Nuclear-explosive (CBRNe) risks are one of the main safety concern. The Radiological Disasters of Fukushima and Chernobyl, the Chemical Events of Seveso or the release of Sarin in Tokio Subway and Biological Emergencies like the H1N1 flue are just few examples that reveal an important evidence: CBRNe risks are something around us and they represent a danger worldwide. The CBRNe threats can be both intentional and un-intentional and it is important to have highly specialized advisors that can support decision makers and first responders. The University of Rome Tor Vergata, in collaboration with the most important Italian and International Bodies that work in the field of CBRNe safety and security and supported by NATO and OPCW, organized two International Master Courses in Protection against CBRNe events. In this context, a Table Top Exercise (TTX) was organized, in collaboration with the Ministry of Interior and Ministry of Defence, taking into account that, in each country, the system response to CBRNe events strongly depends also on law and procedures, that enforce the advisors and first responders to rely with different skills and roles in function of the administration of origin. The organized TTX was aimed to test the level preparation of students and experts that work in Italy in the field of CBRNe events and to improve the emergency planning. In particular, a radiological release was simulated in a maritime zone. The students were divided in multidisciplinary groups with heterogeneous competences. Each group was supported by CBRNe experts and was stressed by the injects from a Command and Operative Centre. Responsiveness to the injects and to the stress together with the ability to organize and manage safety and security operations, but also to interpret each role in the team according to Italian Civil protection and Italian Civil Defence law attributions, were evaluated for

## PROPOSAL

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each group. The scenario, the logistic organization and the results will be presented and analyzed by the authors in this paper.

## PRELIMINARY INDEX

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3. **Table Top Exercise (TTX)**
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4. **Data discussion and comparison by TTX groups**
5. **Conclusions**
6. **Future developments: a proposal of a GAP Analysis methodology to improve the TTX organization.**