

INAIL Italian Workers' Compensation Authority
 Department of Occupational and Environmental Medicine, Epidemiology and Hygiene

First Aid in the workplace
 the state of the art in Italy

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WHO ARE WE?

- INAIL is the National Institute for the Insurance against accidents at work and occupational diseases; it protects workers whose activities are classified at risk by the law.
- In the Department of Occupational and Environmental Medicine Epidemiology and Hygiene, a working group that conducts research and training on First Aid and Basic Life Support and Defibrillation has been set up


OUR GOALS:

- spreading the emergency and first aid culture at work;
- collecting and promoting best practices on first aid at work and early defibrillation
- testing and proposing innovative training paths for occupational physicians and other health professionals who are involved in first aid training courses

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GOLDEN HOUR

The outcome of accidents at work depends on:



- event severity/extent of the injury
- effectiveness of the assistance offered in the early hours (including the intervention of first aider)

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Cardiac arrest

- Italy has an estimated incidence of cardiac arrest of approximately 60000 cases per year
- Beginning cardiopulmonary resuscitation and using DAE within 3-5 minutes of cardiac arrest can increase survival rates from 49% to 75%

Trauma / Injury

- 1st cause of death below 40 years of age.
- High social costs for lost lives and disabling outcomes
- The percentage of preventable deaths is estimated between 33% and 73% with adequate pre-hospital treatment
- Most of the deaths occur before arrival at the hospital

ERC guidelines 2010 (Manuale PTC Base - IRC) **INAIL**

ITALIAN PRODUCTIVE SYSTEM CHARACTERISTICS

Average size of the enterprises (in%)

Enterprise Size	Percentage
Micro (< 10 employees)	94%
Small (< 50 employees)	4%
Medium (< 250 employees)	1%
Large (> 250 employees)	1%

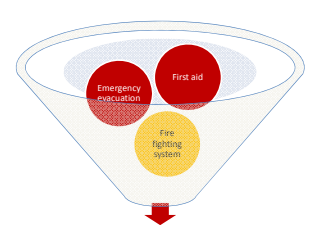
No of workers by enterprise size (in %)

Enterprise Size	Percentage
Micro (< 10 employees)	65%
Small (< 50 employees)	25%
Medium (< 250 employees)	13%
Large (> 250 employees)	21%

- Enterprises with less than 250 employees are the most involved in fatal accidents (96.8%)
- The peak of accidents occurred in micro-enterprises (65%)
- In this system, it's rarely available a department of occupational medicine or an emergency service on site

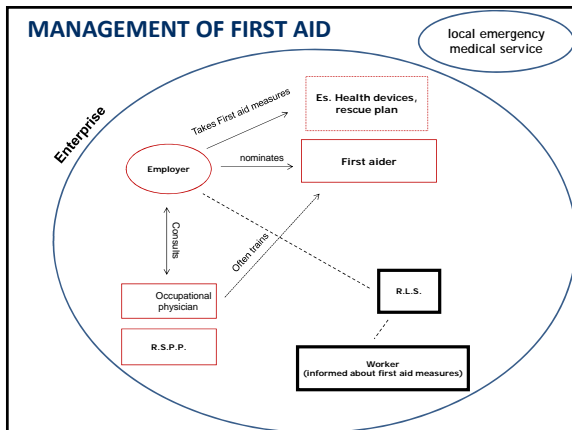
Source: ISTAT 2011 **INAIL**

MANAGEMENT OF FIRST AID




EMERGENCY PLAN


The first aid management is part of protection measures, within the wider chapter of emergency management. **INAIL**



FIRST AID TRAINING COURSES



- ❑ Workers' training must be conducted by medical personnel, in collaboration with nurses or other H&S professionals
- ❑ The training takes 12 or 16 hours, depending on the company classification and must include specific risks.
- ❑ Re-training is required every three years



AED IN THE WORKPLACE (1)

In Italy the AED is not required in the workplace, but only in sport centers. In other places is recommended (public places with a high number of visitors, isolated areas...)



sport complex



public places (schools, universities, offices)




airports, railway stations, shopping malls, hotels, restaurants




High risk industrial facilities

Since 2013 a decree requires sport societies to have the AED


AED IN THE WORKPLACE (2)



- ❑ The legislation on early defibrillation gave a large contribution to the culture of emergency
- ❑ In addition, INAIL established a discount on insurance premium for those companies having AED among their emergency equipment, even if not required by the law




CRITICAL ISSUES




The main critical issues are related to:

- ❑ FIRST AID TRAINING
 - ✓ In many cases too much theoretical and not enough practical
 - ✓ made only to fulfill the norm and not commensurate with the present risks
- ❑ PROCEDURES/MANAGEMENT
 - ✓ companies perceive First Aid like a waste of money and resources

The efficacy of the first aid management is not currently monitored



RESEARCH PROJECT




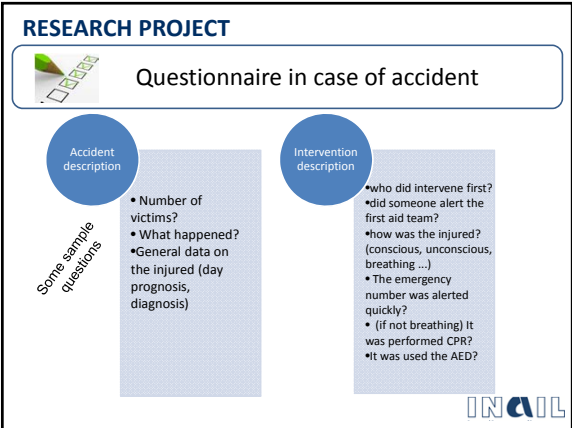
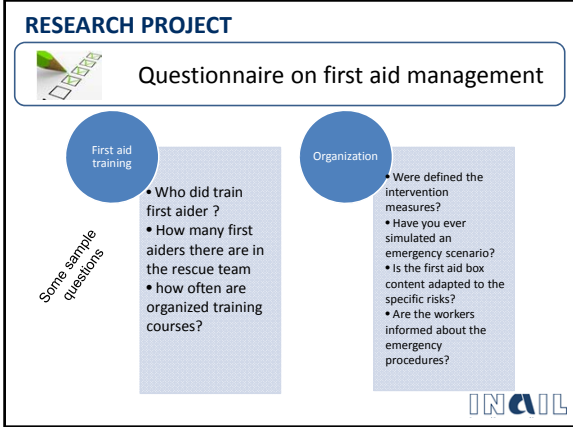
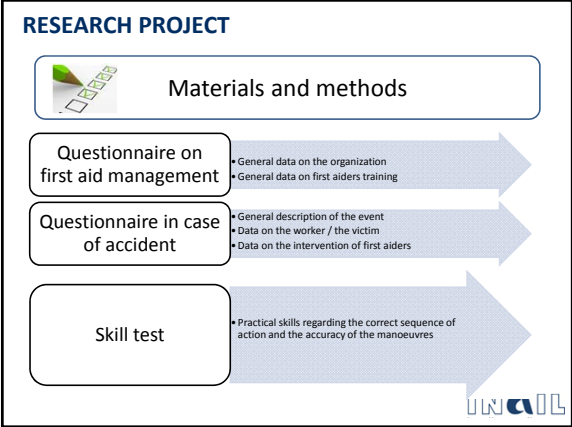
Aim

To assess the efficacy of first aid system at work

How?

- ❑ Assessing the efficacy of first aider training
- ❑ Checking how (and if) the first aid system responds to the emergency and how (and if) the first aiders manage the early emergency intervention

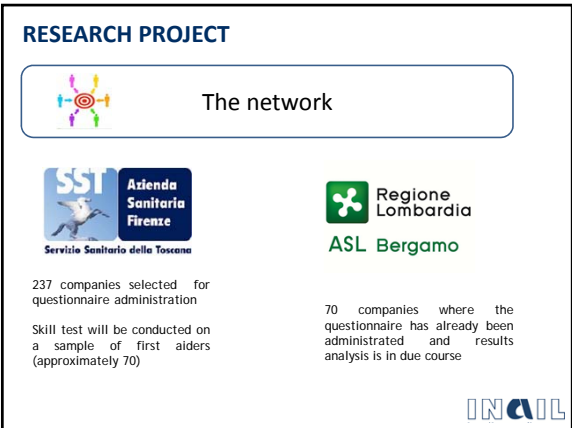




ated scenario

2. Assess the accuracy of the maneuvers

With computer - assisted manikin that records a series of parameter (for example the depth of the chest compressions)



- ### NATIONAL PROPOSAL
- To improve FA management it is necessary:
- to collect data on the effectiveness of FA in companies to propose legislative updates and good practices
 - to improve the training of occupational physicians, who have the task to sensitize employers and employees and to carry out the training of company first-aiders.
 - to integrate current legislation with international guide-lines, with special reference to BLS/D training
 - to sensitize institutions to the importance of AEDs in the workplace.
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PROPOSAL - ICOH WORKING GROUP / New SC

- collect and share data on first aid management at work
- collect and share data on the efficacy of first aider intervention
- collect and share best practices
- according to other scientific organizations (ERC, ILCOR, WHO) propose further emergency intervention protocols (for health professionals and for non-health people);

