AUTOMATED EXTERNAL DEFIBRILLATORS IN THE

WORKPLACE: A VITAL NEED? A BELGIAN EVALUATION STUDY

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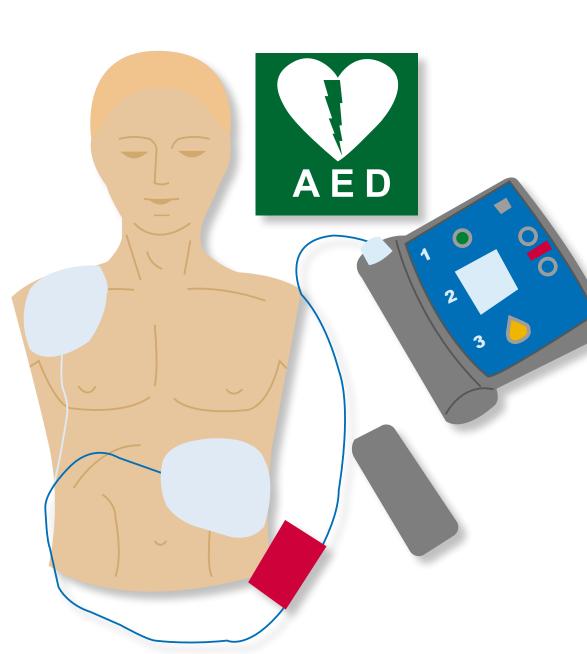


INTRODUCTION

- Few studies exist on the presence and use of Automated External Defibrillators (AEDs) in workplaces
- Data collection on AED installation and use on a national level is needed

AIM OF THE STUDY

To describe the presence (1) and use (2) of AEDs at Belgian workplaces from 01/01/2012 to 31/12/2014



METHODS

Questionnaire

- Self-constructed online 37-item questionnaire
- Consisting of:
 - General characteristics
 - Information about AED presence, characteristics and use
 - Information about the organization of first aid procedures
- Sent by associations of occupational physicians and prevention advisors to their members
- Completed by occupational physicians and prevention advisors in Belgian companies

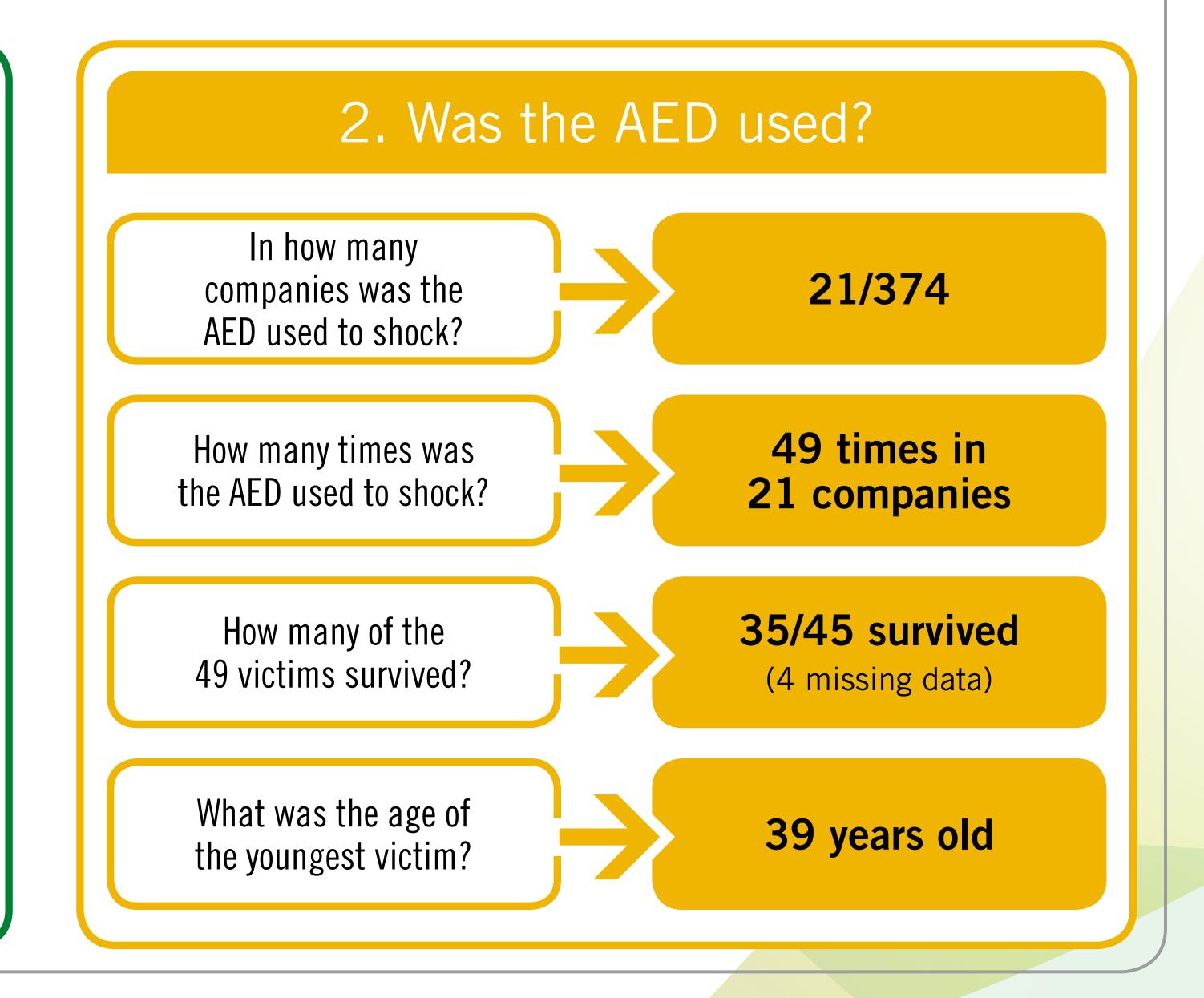
Data analysis

Descriptive statistics and logistic regression

RESULTS

767 companies (52% industrial and 48% administrative activities) participated

1. Is an AED present in the company?		
YES 48.8% (n=374)	NO 51.2% (n=393)	
Presence depends on (significa	nce level p<.05):	OR (95% CI)
Number of persons present in a company		
0-49: reference category		
50-99		2.31 (1.44-3.71)
100-199		2.28 (1.44-3.63)
200-499		2.04 (1.28-3.25)
≥500		4.46 (2.82-7.55)
Specific risks in the company that may lead to heart problems (e.g. older employees, heavy physical activity)		1.4 (1.1-1.9)
Presence does not depend on (p=NS):		OR (95% CI)
Type of activity (industrial versus administrative)		1.1 (0.9-1.5)
Expected ambulance response time (median 10 min, interquartile range 8-15 min)		1.0 (0.9-1.1)



DISCUSSION

- > Companies with a higher number of persons present and companies with risks that may lead to heart problems have more often an AED on-site.
- > Six percent of the companies with an AED used it once or more during the period 01/01/2012 31/12/2014. The use of an AED in persons of ≥39 years old was reported to be successful in 78% of the cases.

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