

AED IN THE WORKPLACE

GENERAL OCCUPATIONAL SAFETY & HEALTH ISSUES (ABSTRACT)

A MISSING GAP IN BRUNEI'S SAFETY REGULATIONS

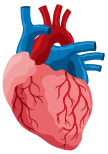
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INTRODUCTION



Sudden Cardiac Arrest can occur anytime & anywhere.

Early use of AEDs increase survival rates.

Limited awareness, access & training on AEDs at Brunei workplace

COMPARISON WITH CHINA



In 2016, China introduced **Public Access Defibrillation (PAD)** Program & regulation requirement for training of at least 100 laypersons for each installed AEDs.

FACTS ON AEDS

Before apply AED check the casualty chest and make sure there is:



No Hair



No Medical Patch



No Jewellery



No Sweat



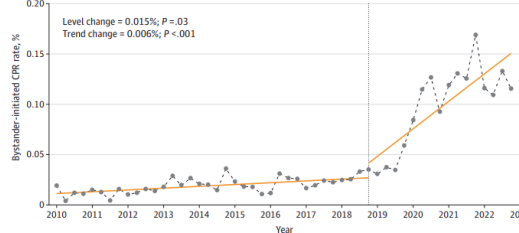
No Pacemaker

AEDs usually deliver shocks at voltages ranging from **200 to over 1,000V** to reset the heart's rhythm.

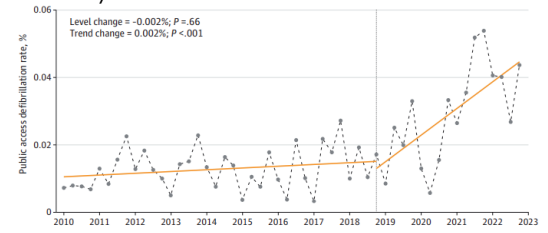
CASE STUDY ON SHANGHAI, CHINA

Rates & Estimates of Bystander CPR & AEDs Use in Interrupted Time Series Analysis

A. Bystander CPR



B. Bystander AED



Solid lines denote the estimated trend of the outcomes. Cricle & dashed lines denote the real trend of the outcomes. Vertical dashed line denotes the time of intervention implementation.

In 2024, 13,751 Out of Hospital patients in Shanghai show the increase of survival rates done by bystanders from 2016 to 2020 after the implementation of PAD Program.

OBJECTIVE



To examine the lack of AEDs awareness & regulation in Brunei workplaces.



METHODOLOGY

- Observe the requirement on AEDs in Brunei's workplace regulations.
- Apply case study in China to understand how AEDs improves survival rates based on research articles.
- Compared differences and suggested workplace safety improvements using comparative analysis.

BRUNEI'S REGULATORY FRAMEWORK

- AEDs is only a **consideration** but not a mandatory;
- No clear guideline for AEDs in workplace.

INDUSTRY GUIDANCE NOTE (IGN) 2023/IGN/01

ANALYSIS

- No specific regulation on AEDs in Brunei workplace lead to lack AEDs awareness in workplace.
- Case Study in China shows the PAD Program allow bystander to quickly act & help. Leading to increase of Out of Hospital patients survive rate.

RECOMMENDATIONS

- Implement regulation to mandate AEDs training & availability in workplaces.
- Conduct comprehensive AEDs awareness programs for employees to ensure effective use during emergencies.

CONCLUSION

Based on our research, the importance on awareness is important in workplace to help increase the chances of survival rate of a person during emergencies.