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A STUDY ON THE AWARENESS OF HEAT
STROKE AMONG CONSTRUCTION WORKER

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ABSTRACT

The increase of thermal environment in urban spaces contribute to the phenomena of heat stroke due to excessive of heat radiant. Therefore, there is and to acknowledge the awareness of heat stroke to prevent any high risk occur in future. The purpose of of this research study is to recommend or suggest on awareness of heat stroke among construction worker at construction site. The results of this study are expected to produce more knowledge and prevention step to reduce heat related illness scenario. The research methodology used in this study is literature review and case study on selected construction project in Kuala Lumpur, Malaysia. This study contributes in definition and symptoms of heat stroke in general term, more specific on the factor and effect of heat stress towards the construction workers and proposed suggestions on awareness of heat stroke among the workers to reduce heat related-illness incident happen in future.

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CHAPTER 1: REASEARCH BACKGROUND

1.0 RESEARCH BACKGROUND

The demanding task or work that have to face with hot ambient environment are led to the workers in exposing of heat stress. Malaysia is located in South East Asia (SEA) with the tropical climate zone, hot and humid all the time. During hot weather, construction work might turn to difficulties for the workers to carry out their activities. Most of the activities at construction site require direct exposure to sun heat and the site areas mostly without a good ventilation, full with dust. The installation of blowers at construction usually unavailable due to limited space, uneven ground surface and lack of electricity supply (Yi et al., 2017).

Construction site layout installed with many site facilities such as operations plants, material storage area, tools areas, warehouses and others. All the facilities usually are near with the movement of the works to minima or reduce of operational cost at construction site (Hawarneh et al., 2021). According to (Fang et al., 2021) high-temperature working environment is a physical active that working under strong heat radiant and increasing of gas humidity. Thus, the construction workers that have frequently engage in heavy manual and physical work or labor at construction site may have heat related to stress that affect their mobility work at site.