

Safety Assessment for the Prevalence of Occupational Contact Dermatitis Among Construction Workers

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Contact dermatitis (CDs), also called eczema, is defined as an inflammation of the skin resulting from exposure to a hazardous agent. It is the most common form of reported occupational skin diseases (OSDs), and represents an overwhelming burden for workers in developed nations. The National Institute of Occupational Safety and Health (NIOSH) involve dermatologic diseases on its list of top ten Occupational illness and injury in the US. The economic burden of OSDs cost hundreds of millions of dollars annually and a quarter of these is resulting in an average work loss of 10 to 12 days. Therefore, it is essential to investigate the epidemic of occupational skin diseases (mainly occupational contact dermatitis (OCD)). Construction workers have a substantial risk of developing OCD. So construction settings are also a significant studying section within the total work-related OCD. But the researches of OCD which specifically for construction workers is rare. The vast majority of studies in the construction industry focused on respiratory diseases and musculoskeletal injuries. Also, it is difficult to get accurate epidemiological data for OCD and usually far more underestimated in national or states' diseases-reported system. With the booming of the construction industry in recent years and the changes of allergens and irritants in building materials, it is particularly important to reassess the prevalence of OCD among construction workers and its corresponding risks and protective factors. This paper will first conduct a thorough investigation of the Prevalence of Occupational Contact Dermatitis in the construction industry. Second, researchers will predict the prevalence rate and to analyze if there are intrinsic and extrinsic high risks. Third, this research will provide protective measures and strategies to help reduce the prevalence rate in the construction industry effectively. It will tremendously help construction workers understand the potential safety and health issue of the Prevalence of Occupational Contact Dermatitis. The recommended protective measurement and strategies will improve regular construction safety training.

Keywords: Safety Assessment, Construction, Contact Dermatitis