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# A comparative analysis between integrated occupational safety and health management system in a support mining company and the Indonesian Mining Safety Management System

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A support mining company implements the main company's, Occupational Safety and Health Management System (OSH-MS) called "FRESH" Management System. Meanwhile, the current management system of the Indonesian Mining Safety Management System has to fulfilled by all mining company, regardless main or support or sub-contractor company. This research aimed to analyze the fulfilment of the existing integrated Occupational Safety and Health Management System toward the Indonesian Mining Safety Management System. The approach of this action research was a qualitative design. The subject of this research was the Occupational Safety and Health Management

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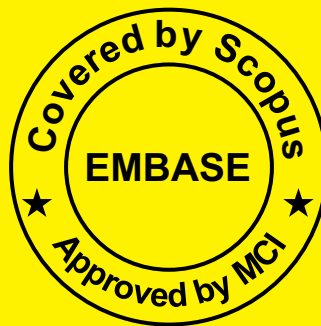
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# ***Ex vivo* Cytopathic Effect Study of Human *Acanthamoeba* keratitis and Use of *E. coli* in Parasitic Culture**

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## **ABSTRACT**

*Acanthamoeba* is free living amoeba and can cause *Acanthamoeba* keratitis, a serious disease which affects the cornea. It is widely existing in fresh water and soil. *Acanthamoeba* has three phases during the life cycle; trophozoite and a resistant double walled cyst and protocysts. The pathogenesis starts when the trophozoites bind to the surface of cornea by expressing mannose-binding protein which can bind to mannose glycoproteins on the corneal surface. The contaminated contact lenses can increase the infection by increasing the binding ability of the trophozoites. This project aimed to study the cytopathic effect of different stages *Acanthamoeba* keratitis. Study strains of *Acanthamoeba* castellani (ATCC 50370) was cultured and seeded in Hep2 cell lines. *E. coli* (strain M12) was used to isolate the trophozoites. The third stage, protocysts was made using Neff's medium. The cytopathic effect was checked trophozoites invasion to monolayer cells cultured in a small flask and in 24 well tissue culture plate. The time of destroying Hep2 cells by the trophozoites is less than that of other *Acanthamoeba* stages. The double ring-shaped cell wall of the cysts may increase the time-kill of Hep2 due to their resistant which was very slow to hatch. Reactivating the trophozoites from cysts then seeding in Hep2 destroyed the cells at less time compared fresh trophozoites as the virulence of the reactivated trophozoites being higher. The result could suggest that the infection of corneas with reactivated trophozoites may be more complex. Finally, the study found that the number of the trophozoites can limit the cytopathic effect of *Acanthamoeba*.

**Keywords:** *Acanthamoeba* keratitis, trophozoites, protocysts, cysts, cytopathic effect, *E. coli*, cornea

## **INTRODUCTION**

*Acanthamoeba* keratitis is a serious disease which affects the cornea and caused by a genus of free living amoeba called *Acanthamoeba*, widely existing in fresh water and soil<sup>1</sup>. *Acanthamoeba* has two phases during the life cycle: a vegetative infective stage (trophozoite) and a resistant double walled cyst<sup>1</sup> and recently an intermediate stage was discovered and known as protocysts<sup>2</sup>. *Acanthamoeba* is an aerobic protozoon. It can be cultured in axenic agar (Ac#6) which contains

yeast extract, peptone and glucose<sup>2,3,4</sup>. It could also grow and isolate in Non-Nutrient Agar (NNA) plates which are seeded with *Escherichia coli*<sup>5</sup>.

The pathogenesis of *Acanthamoeba* keratitis starts when the trophozoites binds to the epithelial tissues of cornea. *Acanthamoeba* trophozoites can express mannose-binding protein on their surfaces which can bind to mannose glycoproteins on the corneal surface<sup>6,7,8</sup>. Traumatic injuries can increase the adhesive ability of *Acanthamoeba* as the injuries could increase mannose glycoproteins expression<sup>6</sup>. The trophozoites could be transmitted to the cornea via the contaminated contact lenses which can increase the binding ability of the trophozoites to the corneal membrane<sup>9</sup>. In addition, the number of acanthopodia, tooth like structures come out from the amoeba surfaces, can play an important role in the pathogenesis of the parasite by increase the adhesive

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# Immunoglobulins Levels in Iraqi Atopic patients (Asthma, Rhinitis and Urticaria)

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## ABSTRACT

One hundred ninety-two patients (82 males and 110 females) with three types of allergic diseases (allergic asthma 60, allergic rhinitis 54, and urticaria 78), and 45 control subjects were tested to determine the levels of IgG, IgM and IgA by using the single radial immunodiffusion technique, and the levels of IgE by the ELISA method. The results revealed an apparent increase in IgE levels and inversely significant decrement for both IgG and IgA in all the three types of the allergies. While there were no substantial differences between IgM levels in allergic asthma, urticaria, and control; only allergic rhinitis showed a significant decrease in the IgM level. The aim of this research is to investigate the relationship between serum level of IgG, IgM, IgA, and IgE in patients with allergic rhinitis, allergic asthma and urticaria. The decreasing level of IgG and IgA, as well as, increasing level of IgE, are associated with the three types of allergies and play an important role in developing the disease.

**Keywords:** Immunoglobulins, asthma, rhinitis, urticaria

## INTRODUCTION

Immunoglobulins (Ig) are glycoproteins synthesized by lymphocytes and plasma cells. They are an essential component of the humoral immune response to remove or destroy any foreign bodies (antigens) such as viruses and bacteria to prevent cell infection. The interaction between B-cells and T-cells are necessary to generate active B-cells, which produces a different class of antibodies: IgA, IgG, IgM, IgE and IgD. Soluble Ab is released into the blood for invading the pathogenic microorganisms<sup>1</sup>.

Asthma, rhinitis, and urticaria are the conditions that depend on many causes linked by hereditary and environmental factors, they also share many pathophysiological characteristics<sup>2</sup>. The Ig have an important role in the immune response of allergic conditions, and play a crucial role in their pathological process<sup>3</sup>.

Immunoglobulin A (IgA) is found in two forms in the human body: secretory IgA, an important first-line defense on the mucosal surface, and serum IgA, that mediates a variety of protective functions during the interaction with specific receptors and immune mediators<sup>4</sup>. The lack or deficiency in this antibody at

the body sites (throat, lung, eye, mouth, genitourinary tract and gastrointestinal tract) cause allergic diseases, autoimmune diseases, chronic diarrhea or recurrent infections<sup>5</sup>. A correlation has been associated with IgA deficiency and the allergic diseases. Around 10% of IgA deficient patients may also be deficient in T-cells, phagocytic cells, sometimes complement<sup>6</sup> and IgG subclass is deficient in asthma patients<sup>7</sup>.

Allergen-specific IgG antibody plays an essential role in immune tolerance to the allergens<sup>8</sup>. IgG autoantibody against IgE or the FcεR1α receptors is produced by 50% of the patients with chronic urticarial<sup>9</sup>, the cross-link with this receptor-induced activation and degranulation of basophils and mast cells followed by releasing histamine<sup>10</sup>.

IgE has been recognized to play an important role in mediating the allergic reaction in asthma; the evidence shows the involvement of IgE in the processing of airway remodeling. It is also linked to allergic rhinitis, sinusitis, food allergy, chronic urticaria, and drug allergy<sup>11</sup>. IgE antibody is attached to basophils, mast cells, and dendritic cells through the IgE receptor (FcεR1α), which is crucial for the activation of these cells during allergen exposure<sup>12</sup>. The effect of IgE is crucial in triggering the

# Effects of Empowerment and Work Environment on Job Satisfaction of Nurse-midwives working in Hospitals

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## ABSTRACT

**Purpose:** The purpose of this study was to provide basic data needed to develop programs to improve job satisfaction for nurse-midwives by analyzing factors affecting job satisfaction.

**Method:** The study was a descriptive study where the data were collected using questionnaires from 136 nurse-midwives and analyzed by frequency, percentage, mean, standard deviation, t-test, ANOVA, Pearson's correlational coefficients and stepwise multiple regression.

**Results:** Job satisfaction according to general characteristics and job characteristics of nurse-midwives showed a significant difference according to age, hospital type, career of nurse, monthly income, and reason for going to the current hospital. Job satisfaction of nurse-midwives was positively correlated with empowerment ( $r=.59$ ,  $p<.001$ ) and work environment ( $r=.60$ ,  $p<.001$ ). The factors affecting job satisfaction of nurse-midwives were work environment ( $\beta=.54$ ,  $p<.001$ ) and empowerment ( $\beta=.41$ ,  $p<.001$ ), and the total explanatory power was 59.4%.

**Conclusion:** As the factors affecting job satisfaction of nurse-midwives have been identified as work environment and empowerment, hospital leaders should support the nurse-midwives that are registered according to medical law to create a work environment suitable for job performance and fulfill their duties faithfully.

**Keywords:** Nurse-midwives, Empowerment, Work environment, Job satisfaction, Hospital

## INTRODUCTION

In Korea, according to the Article 6 of the Medical Law, after having passed a national examination through training such as education and practice at a medical institution for prenatal care for one year with the license of a nurse, the nurse-midwives are licensed. According to Article 2 of the Medical Law, nurse-midwife's duty is to provide health and well-being guidance for preterm delivery, pregnancy, marital division, postpartum and newborn infants.<sup>1</sup> Therefore it can be said that nurse-

midwife is experts who can cooperate with other medical professionals and perform health care of pregnant women and babies efficiently and competently at all places.

On the other hand, today, pregnant women tend to want to have babies in hospitals rather than maternity centers, and with the sudden drop in birth rates due to low birthrates, and most nurse-midwives want to work as nurse-midwives or nurses in maternity wards, newborn units, etc. It is therefore necessary to analyze how satisfied nurse-midwives are in performing their jobs in the hospital.

Job satisfaction refers to how satisfied an individual is with a job<sup>2</sup> and this is not only an important indicator in predicting organizational performance.<sup>3</sup> In particular, it was reported that higher job compensation, which is directly related to job performance, is associated with higher job satisfaction.<sup>4</sup> In a previous study of hospital

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# The Association between Short Nap and Memory Performance Using Concise Learning Method and Logical Learning Method among Private University Students in Selangor, Malaysia

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## ABSTRACT

In the present high-tech environment, achieving academic goals become competitive among university students. Students are afraid of failing in exams. They are awake for 16 hours or more a day without a nap. Students have programmed their mindset or believe that staying awake for long hours in a day can achieve their goals. This study analyzed the association between short nap and memory performance among private university students in Selangor, Malaysia. Five hundred respondents in two different equal groups were selected randomly to be involved in this study. Concise and logical learning methods were used to achieve the objectives. A short briefing was given to the participants before subjects start the memorizing task that consists of concise and logical learning for one hour. Then, two hundred fifty respondents (sleep group) were sent to the skill lab for nap session, and the other two hundred fifty respondents (awake group) remained in the classroom. After one hour, both groups tested on memory recall for 30 minutes. Data were analysed using one-way MANOVA which revealed a significant multivariate main effect for independent variables group Wilk's lambda = 0.61,  $F(12,39.00)=12.0$ ,  $p<0.001$ , partial Given the significance of the overall test, the univariate main effects for independent variables were obtained for percentage of concise learning method:  $F(11,33)=11.39$ ,  $p<0.001$ , and for the logical learning method,  $F(23,67)=23.62$ ,  $p<0.001$ , and for total scores  $(22,19)=22.24$ ,  $p<0.001$ . Significant independent group pairwise differences were obtained in the number of 500 respondents between sleep group and awake group. Mean score number awake group were 3.95 and mean of sleep group 8.23. In conclusion, there is a significant association of memory recall test scores between student intervening short nap and student without intervening short nap using concise and logical learning method.

**Keywords:** Nap, Memory Performance, Concise, Logical Learning, University Students

## INTRODUCTION

Achieving academic goals become competitive among university students and they are awake for long hours without a nap because they have programmed their mindset. Shorter sleep duration led the students to feel sleepy during the day, tired, drowsy, moody and had a

difficult time in getting up in the morning<sup>(1)</sup>. Napping has the potential to enhance people's lives<sup>(2)</sup>. Napping helps clear out the brain's inbox and integrates information into our brain memory<sup>(3)</sup>.

Short-term or working memory doesn't need to store everything we perceive. Most information is only required for a short time and can then be discarded<sup>(4)</sup>. Short-term memory holds information for few seconds to a few minutes, and this kind of memory is often referred to as working memory; it allows us to understand information as we were encountering it and then discard it. This system is constantly updating, focused on data we need at that particular moment in time<sup>(5)</sup>.

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# Swimming Skill Development among Rural Children Under Limited Infrastructure: The Stakeholders' Perspectives

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## ABSTRACT

Drowning is one of the most common causes of death among young children in Thailand. Swimming skill and water safety lessons were part of the possible prevention strategies for drowning as they provide children with the required skills and knowledge to keep themselves safe. However, limited study to understand in how children in rural area develop their swimming skill. The qualitative study aims to assess the need of swimming program of primary school students in rural setting of Thailand and explore the opportunity to conduct the program for school children. Group discussion were conducted in three groups of stakeholder; primary school children, teacher, and the community leaders in northern part of Thailand. The field notes were transformed into an organized note for analysis. The findings revealed that school children described their swimming lessons as a life skill which they do not learn in school. Lack of swimming pool, water safety lessons, and instructor were found in school curriculum in primary school level. Majority of children developed their swimming skill in natural water bodies taught by peers, family members. Information gained from school teachers and community leaders indicated their willing to support swimming lessons in the community. Lack of infrastructures in the developing countries is one of the barriers to promote swimming skills among school children in rural setting. The swimming program in the community could be started in collaboration of stakeholders where available infrastructure.

**Keywords:** Drowning prevention, rural, school children, swimming ability

## INTRODUCTION

Drowning is a leading cause of mortality worldwide. An estimated of 372 000 people died each year from drowning, making it the world's third leading unintentional injury killer. Drowning is among the 10 causes of death of children and young people globally. The majority of drowning (97%) occur in low-and middle-income countries (LMIC) and the younger than 15 years are at high risk group<sup>(1)</sup>. Drowning is one of the most common causes of death among young children in Thailand. School-aged children are at high risk of drowning and boys are more than twice as likely as

girls to drown. Similar to LMIC drowning death occur in rural setting, natural water bodies such as pounds, ditched, lakes, rivers or the sea were found to be source of most drowning death<sup>(2)</sup>. This is generally attributed to higher exposure to aquatic environments in rural areas where majority of population lives<sup>(1, 3)</sup>.

Lack of barriers to water bodies, inadequate supervision for infants and young children, and poor swimming skill with less awareness of water danger had been identified as drowning risk in children<sup>(1, 3-5)</sup>. Previous literatures identified that adult supervision, install barriers controlling access to water, provide safe places away from water, teach school-age children swimming with water safety, strengthening public awareness are recommended as community-based action to prevent drowning<sup>(5-8)</sup>. A systematic review addressed that swimming and water safety lessons were part of the possible prevention strategies for drowning as they provide children with the required skills and knowledge to keep themselves safe or remove themselves from

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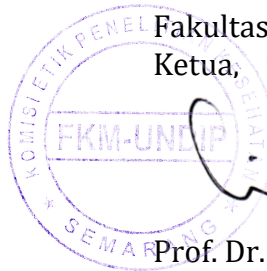
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