Assessment of Perception of Orthodontic Dental Staff about Hand Hygiene at Selected Dental Clinics, Saudi Arabia

Dr. Ibrahim Abdullah Alanazi¹, Dr. Hussam Muneer Alqahtani²

¹Dental Resident, Armed Forces Hospital, Tabuk
²Dental Resident, Ministry of Health, Bishah

Abstract: Background: Notwithstanding the prominence on patient protection at dental clinics, some health institutes has examined the level to which which wellbeing is an intentional priority or their background chains patient safety. In comeback to the Institute of Dental Medical report n relation to Orthodontic subspecialty and to an executive eagerness to patient protection, the current research was applied to enhance an efficient dimension of hand hygiene. Objective: To assess the level of perception of Orthodontic dental staff about hand hygiene at the selected dental clinics, Saudi Arabia. Method: A cross-sectional survey was conducted at five dental clinics, Saudi Arabia. A18 items self-administered questionnaire was provided to 150 Orthodontic staff in the research setting based on their area of their specialties to assess the level of perception of Orthodontic dental staff about hand hygiene at the selected dental clinics, Saudi Arabia. Results: This study finding showed that the level of perception of Orthodontic dental staff about hand hygiene. The majority (95.33%) of the Orthodontic staff had a high level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to the individual works required to perform. Although, concerning the Intermittent Level of Awareness the highest level regarding the Level of Perception of Orthodontic Dental Staff about Hand Hygiene was (2.0%) in relation to Hand washing is indicated between tasks and procedures on the same patient. On the other hand (92.77%) of the Orthodontic staff had a lowest level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to Hand washing reduces the incidence of healthcare-related infections. As well as, (92.77%) In standard hand washing: minimum duration should be. Although, concerning the Intermittent Level of Awareness the highest level regarding the Level of Perception of Orthodontic Dental Staff about Hand Hygiene was (2.0%) in relation to Hand washing is indicated between tasks and procedures on the same patient. While, regarding the Low Level of Perception of Orthodontic Dental Staff about Hand Hygiene in the item of was Alcohol hand rub substitutes hand washing even if the hands are soiled showed higher rate of awareness (4.66%). Conclusions: The current study results revealed that there were high levels of perception of Orthodontic dental staff about hand hygiene within the study setting.

Keywords: Hand Hygiene; Perception; & Orthodontic staff

1. Introduction

Progressively, dental clinics are sustaining its alertness toward the insinuation of transforming organizational culture in order to develop patient safety. Developing significance in safety culture has been accompanied by the need for appraisal utensils focused on the cultural aspects of patient protection expansion efforts. Hand Hygiene assessment tools could be utilized as a instrument for humanizing patient safety. It possibly will moreover illustrate the individuality of culture appraisal tools currently obtainable and discusses their current and potential utilities, including brief examples from healthcare organizations that have commence such assessments. (Applin, Williams & Day, 2011).

The capacity of practice in professional and ecological health care has greatly expanded with increased importance on health promotion and health fortification services. Various variables have influenced the evolution of occupational health practice. Among them are the changing population and workforce, the introduction of new chemicals and work processes into the work environment, increased work demands, technological advances and regulatory mandates, increased focus on illness/injury prevention, and a rise in health care costs and workers' compensation claims. Tiwari, Lai & Yuen, (2006).

According to Chan et al., (2000), suitable reporting of job-related exposures to an employee health service is required to ensure proper analysis, make high quality prognosis after early treatment, and establish legal prerequisites for workers' recompense. Failure to adherence to proper hand hygiene, placing dentist and patients at unnecessary risk. Information is limited regarding the prevalence of needle stick injuries, the circumstances surrounding them, and the barriers to reporting them. We conducted this study to investigate the prevalence and context of needle stick injuries and behavior associated with the reporting of injuries among a large number of dentists in training.

Hazards caused by non adherence to hand hygiene by the health care providers, statistics reported by the Central Register of Occupational Diseases in Poland indicates that among 314 new cases of occupational diseases in HCWs in 2005, HBV and HCV represented 42.6% of all cases.9 Despite the substantial reduction in HBV infection since vaccination was introduced in 1989, the incidence of HCV hepatitis in Poland is still on the increase in this occupational group. (Kumar, 2003).

Orthodontic staff should have a high level of awareness about occupational injury enhance consciousness education has not been prominent among health care workers, particularly in developing countries. To the greatest of our understanding, the attentiveness of Orthodontic staff in...
relation to knowledge and awareness about policies of safety measures within the work setting. Consequently, conducted this study to assess the level of perception of Orthodontic dental staff about hand hygiene within the dental clinics, Saudi Arabia.

2. Participants and Methods

This study was conducted in May, 2016 among Orthodontic staff at the dental clinics, Saudi Arabia. The study was granted ethical approval by the clinics ethical committee.

The participants were selected from the selected dental clinics. After signing an informed written consent form, the questionnaire was given to each participant. Before administration of the questionnaire, the purpose of the study was explained to each respondent and confidentiality of the information guaranteed.

The research was carried out by the authors who were appropriately trained in administering the informed consent and the self-report questionnaire to the participants. In this cross-sectional study, a structured questionnaire prepared by the authors, was administered to the participants. A 18-item self-administered structured questionnaire about perception about hand hygiene among Orthodontic staff, which advised de novo and tested. It included a full range of response options, designed to identify the practitioner’s to assess their level perception of Orthodontic dental staff about hand hygiene within the study setting. This study finding showed that Level of Perception of Orthodontic Dental Staff about Hand Hygiene was showed significantly associated with many variables (Table 1). This study finding showed that Level of Perception of Orthodontic Dental Staff about Hand Hygiene. The majority (95.33%) of the Orthodontic staff had a high level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to for Hand washing is indicated between tasks and procedures on the same patient. On the other hand (92.77%) of the Orthodontic staff had a lowest level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to Hand washing reduces the incidence of healthcare-related infections. As well as, (92.77%) In standard hand washing: minimum duration should be. Although, concerning the Intermittent Level of Awareness the highest level regarding the Level of Perception of Orthodontic Dental Staff about Hand Hygiene was (2.0%) in relation to Hand washing is indicated between tasks and procedures on the same patient. While, regarding the Low Level of Perception of Orthodontic Dental Staff about Hand Hygiene was the item of in standard hand washing: minimum duration should be and also n the item of was Alcohol hand rub substitutes hand washing even if the hands are soiled showed higher rate of awareness (4.66%)

3. Results

<table>
<thead>
<tr>
<th>Items of perception about Hand Hygiene</th>
<th>High Level of Awareness</th>
<th>Intermittent Level of Awareness</th>
<th>Low Level of Awareness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hand washing minimizes microorganisms acquired on the hands if soiled</td>
<td>139 93.77%</td>
<td>6 4.0%</td>
<td>5 3.33%</td>
</tr>
<tr>
<td>Hand washing reduces the incidence of healthcare-related infections</td>
<td>138 92.77%</td>
<td>8 5.33%</td>
<td>3 2.0%</td>
</tr>
<tr>
<td>Standard hand washing includes washing of both hands and wrists</td>
<td>142 95.77%</td>
<td>4 2.66%</td>
<td>4 2.66%</td>
</tr>
<tr>
<td>In standard hand washing: minimum duration should be</td>
<td>138 92.77%</td>
<td>5 3.33%</td>
<td>7 4.66%</td>
</tr>
<tr>
<td>Hand decontamination: includes washing the w/antiseptic soap for 30 seconds</td>
<td>140 76.44%</td>
<td>4 2.66%</td>
<td>6 4.0%</td>
</tr>
<tr>
<td>Alcohol hand rub substitutes hand washing even if the hands are soiled</td>
<td>139 93.77%</td>
<td>4 2.66%</td>
<td>7 4.66%</td>
</tr>
<tr>
<td>Hand washing is indicated between tasks and procedures on the same patient</td>
<td>143 95.33%</td>
<td>3 2.0%</td>
<td>4 2.66%</td>
</tr>
</tbody>
</table>

4. Discussion

Level of Perception of Orthodontic Dental Staff about Hand Hygiene was showed significantly associated with many variables (Table 1). This study finding showed that Level of Perception of Orthodontic Dental Staff about Hand Hygiene. The majority (95.33%) of the Orthodontic staff had a high level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to for Hand washing is indicated between tasks and procedures on the same patient. On the other hand (92.77%) of the Orthodontic staff had a lowest level of Level of Perception of Orthodontic Dental Staff about Hand Hygiene in relation to Hand washing reduces the incidence of healthcare-related infections. As
well as, (92.77%) In standard hand washing: minimum duration should be. Although, concerning the Intermittent Level of Awareness the highest level regarding the Level of Perception of Orthodontic Dental Staff about Hand Hygiene was (2.0%) in relation to Hand washing is indicated between tasks and procedures on the same patient. While, regarding the Low Level of Perception of Orthodontic Dental Staff about Hand Hygiene was in the item of in standard hand washing: minimum duration should be and also the item of was Alcohol hand rub substitutes hand washing even if the hands are soiled showed higher rate of awareness (4.66%).

Another study reported by Berry,( 2008), involving 550 medical students and residents during the 1989–1990 training year likewise reported a high prevalence of hand hygiene (71%), and a higher frequency of infection (by a factor of 6) among surgical residents than among medical residents. In these two studies, rates of reporting hand hygiene ranged from 9 to 19%, and a more recent survey of all types of providers found that 34% had reported their exposure to an employee health service. On the other hand, the study carried by Klegeris & Hurren (2011), showed that only 49% of surgical residents report such injuries extends previous observations that underreporting may result in a substantial underestimation of the magnitude of the problem of non-adherence of hand hygiene.

Concerning the Intermittent Level of Awareness the highest level was awareness towards Perception of Orthodontic Dental Staff about Hand Hygiene in relation to Hand washing Alcohol hand rub substitutes hand washing even if the hands are soiled showed higher rate of awareness (4.66%). It is very important that health care workers have good understanding about the risk of blood-borne pathogens at work place and about the preventive measures for reducing risk. In this study, the majorities of the respondents were very knowledgeable of the harmful effects of awareness of dentists universal precautions compared with those who served for shorter periods. Training and education have been found to be of paramount importance to developing awareness among health care workers, as well as improving adherence to high-quality clinical practice. This research findings are congruent with the findings of the study carried out by (Frier,2011), who found that he greater awareness of hand hygiene among health care workers employed for a longer period non-compliance among medical doctors and nurses are associated with insufficient knowledge, workload, forgetfulness, workplace safety.

Hand Hygiene reduces the risk of exposure of the health care provider’s skin or mucous membranes to potentially infectious materials. Protective barriers reduce the risk of exposure to blood and other body fluids to which universal precautions apply. Examples of protective barriers include gloves, gowns, masks, and protective eyewear. Just over one half of the respondents indicated that they were provided with protective equipment most times. Furthermore, more nurses were provided with protective equipment than medical technologists and medical doctors. Interestingly, more respondents who were aware of universal precautions reported being provided with protective equipment more often than those who were somewhat or not aware. This study results congruent with the research data carried out by Dane,(2013), who reported that less than two-thirds of health care workers claimed that they always used personal protective equipment such as aprons, gowns and gloves, during surgeries and while conducting deliveries. According to Jawaid, et al, among medical doctors working in a tertiary care hospital in Pakistan, compliance for hand washing was 86%, for wearing gloves was 79%, masks 46%, eye goggles 25% and for using gowns/plastic aprons was 45%.35 However, according to Kwan (2012), there is sometimes a high rate of non-compliance among health care workers and this may be due to a lack of understanding among health care workers of how to properly use protective barriers.

5. Acknowledgements

Appreciation is hereby extended to all the participants and administrators staff at study setting

References


Volume 6 Issue 1, January 2017

www.ijsr.net


References


Beachey WD. A Comparison of Problem-Based Learning and Traditional Curricula in Baccalaureate Respiratory Therapy Education. Respir Care 2007; 52: 1497-506.


