Courtesy in Utilization of Safety Procedures among Endodontic Staff’ at Selected Dental Clinics-Saudi Arabia

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Abstract: Background: Safety procedures require to be strongly esteemed by all the health care providers, notwithstanding the fact that decisive staff expansion in the eagerness and risks. Universal Precaution is the only approach so that all these infections could be prevented. Inadequate experience of Orthodontic Staff in performing invasive procedures, they are at particular risk of exposure to blood-borne pathogens (Chopra, et al., 2008). Objective: To assess the level of attentiveness towards policies among dental staff at selected dental clinics -Saudi Arabia. Method: A cross-sectional investigation was conducted selected dental clinics -Saudi Arabia. Self-administered questionnaire was provided to 100 Endodontic staff in the research setting based on their area of their medical specialties to assess their level of attentiveness towards safety procedures among Endodontic staff at selected dental clinics -Saudi Arabia. Results: More than two third (82.5%) of the respondents were had a high level of attentiveness’ towards the policies of Polices of Safety with statistically significantly difference. While, less than one third of the participants (17.5%) were not attentiveness’ towards the safety procedures. Conclusions: The current study results revealed that there were a high levels of attentiveness’ towards the safety procedures among dental staff within the study setting.

Keywords: Utilization, Risk Management & Safety Policies & Procedures

1. Introduction

Utilization of safety procedures are valid based on evidence to decrease the risk of broaden of blood borne and other pathogens from both predictable and unrecognized sources. They are the basic level of safety procedures defense which are to be utilized, as a lowest amount, in the care of all patients. Low & McGeer (2003).

Precautions were initially developed in 1987 the Bureau of Communicable Disease Epidemiology in Canada. The safety measures include unambiguous recommendations for use of personnel protective equipments when contact with blood or body secretions containing blood is anticipated. (Al-Saigul, Fontaine, Haddad, 2002).

Dental staff is at risk of acquiring infection through professional exposure to infectious diseases. The minority studies have reported on Dental staff adherence towards Safety and reported be deficient in of adequate practices in relation to compliance towards the personnel protective equipments. (Wacawik, siorowski & Inglot, (2003).

Particular health hazards are expected to manipulate definite hazard for all the health care providers. All the health care personnel in particular the medical staff who are working in surgical units and Operation Theater are more required to have a cause of a better understanding in adherence with PPE usage which is noteworthy as it provides an assessment of the efficacy of accessible preventative strategies. Wilczyn, et al., (2005).

Recognize the precautionary variables are likely to improve the compliance and decrease the risk of infection transmission. Then, it is possible to integrate these anticipatory approaches into the strategies of health care surroundings. (Jawaid, Iqbal & Shahbaz, 2009).

Safety procedures are the only approach so that all these infections could be prevented. Inadequate experience of surgeons in performing invasive procedures, they are at particular risk of exposure to blood-borne pathogens (Chopra, et al., 2008). Surgeons’ should have reasonable knowledge and performance in relation to adherence to personnel protective equipments.

Elliott et al. (2005), reported that dedicated training must be conducted before a surgeons caring for any patient procedure particularly the ones concerning sharp devices. Physicians’ compliance towards the personnel protective equipments has been reported to be with little level. (Colodner, et al .2003 & Taneja, 2010).

Risks caused by non adherence to Safety 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. (Janjua, et al., 2007).

Safety procedures policies enhance consciousness education has not been prominent among dental staff especially the category of surgeons, particularly in developing countries. To the greatest of our understanding, the attentiveness of Endodontic staffin relation to knowledge and Attentiveness about safety procedures. Consequently, conducted this study to assess their level of attentiveness towards safety...
procedures policies among Endodontic staff at the King Abdul-Aziz University-Saudi Arabia.

2. Participants and Methods

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 one of 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 28-item self-administered structured questionnaire about knowledge and Attentiveness of Safety in the health care system was devised de novo and tested.

It included a full range of response options, designed to identify the practitioner’s level of to assess their level of attentiveness towards policies among Endodontic staff in the selected setting. Prior to distribution of the questionnaire, a pilot study was done on a selective group of dental staff who were asked to fill out the questionnaire and return it back with their remarks and criticism. Minor changes were then made to the final tool.

The groundwork part of the questionnaire consisted of demographic information such as occupation, age, gender, and the marital status. The second part of the questionnaire comprised of questions regarding their level of attentiveness towards Safety. This part also assessed Attentiveness of policies regarding Safety. It took approximately 15 minutes to complete each appraisal.

Attentiveness towards the policies Safety by examining questions about: use of protective equipments such as gloves and gown, mask and protective goggles. A score of “1” was assigned for a correct answer and “0” for an incorrect answer. A health care worker who obtained a total score of “5” was considered “very attentive,” “4 or 3” “somewhat attentive;” and “1 or 0” “not attentive.”

The data were coded and analyzed by SPSS® for Windows® ver. 12.0. Strict confidentiality was maintained. All the data were stored in computers at a secured location, with access provided only to the researchers involved in the study. The $\chi^2$ test was used to test association between categorical variables. A $p$ value $<0.05$ (two-tailed) was considered statistically significant differences.

3. Results

<table>
<thead>
<tr>
<th>Variable</th>
<th>N (%)</th>
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<tbody>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>55(55.0%)</td>
</tr>
<tr>
<td>Male</td>
<td>45 (45.0%)</td>
</tr>
<tr>
<td>Marital status</td>
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</table>

This study showed that attentive towards safety procedures policies among some Endodontic staff working at the KAU was variable. The majority (80.1%) of the Endodontic staff had a high level of attentiveness towards safety procedures policies.

On the other hand (19.9%) of the Endodontic staff had a low level of attentiveness towards safety procedures.

4. Discussion

All the selected dental staff fully completed the questionnaire, giving a response rate of 100%. Table 1 presents demographic information on the studied sample. The sample consisted of 100 respondents—50% females, 40% married, and 24% more than 40 years old. Forty (20%) respondents

The level of attentive towards safety procedures policies was showed significantly associated with many variables (Table 1). The longer a health care worker was employed to the health care sector, the more likely that his or her level of Attentiveness of Safety increased. Most of the respondents (92.9%) employed in the health care sector for 16 years and over-reported higher levels of Attentiveness of Safety than those who served for a shorter period. Conversely, more respondents (45.4%) who served for less than five years were not attentive towards safety procedures.

This study showed that attentive towards safety procedures policies among some Endodontic staff working at the KAU was variable. The majority (81.1%) of the Endodontic staff had a high level of attentiveness towards safety procedures policies Health care personnel in particular Dental staff’ is at risk of acquiring infection through personal exposure to infectious diseases. The minority studies have reported on Dental staff’ adherence towards Personnel Protective Equipments and reported lack of adequate practices in relation to compliance towards the personnel protective equipments.(Peiris, et al., 2003).

On the other hand (20.0%) of the Endodontic staff had a low level of attentiveness towards safety procedures. The adequate knowledge of Safety among medical doctors may reflect the fact that Safety have been incorporated in the medical student curriculum at the King Abdul-Aziz University Hospital, and in on-the-job training protocols at the KAU. The low Attentiveness and understanding of Safety among porters may be attributed to the absence of this information during introductory training courses and

Table 1: Demographic characteristics of the studied sample

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<tr>
<th>Marital status</th>
<th>N (%)</th>
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<tbody>
<tr>
<td>Married</td>
<td>51 (51.0%)</td>
</tr>
<tr>
<td>Single</td>
<td>49 (49.0%)</td>
</tr>
<tr>
<td>Divorced/Separated</td>
<td>6 (6.0%)</td>
</tr>
<tr>
<td>Other</td>
<td>2 (2.0%)</td>
</tr>
<tr>
<td>Age group (yrs)</td>
<td></td>
</tr>
<tr>
<td>26–39</td>
<td>59 (59.0%)</td>
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<tr>
<td>40–54</td>
<td>41 (41.0%)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Attentiveness towards Policies of Safety</th>
<th>N (%)</th>
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<tbody>
<tr>
<td>Not Attentive</td>
<td>26 (26.0%)</td>
</tr>
<tr>
<td>Somewhat Attentive</td>
<td>1 (1.0%)</td>
</tr>
<tr>
<td>Very Attentive</td>
<td>73 (73.0%)</td>
</tr>
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</table>
orientation program. Furthermore, the deficient knowledge base among some of the dental staff may be due to a lack of investment in staff training or to limited understanding of medical staff.

The dental staff 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 bloodborne pathogens and identified HIV as a potential harm followed by hepatitis and bacterial infections. In this study, dental staff employed in the health sector for longer periods were more aware of Safety compared with those who served for shorter periods. Training and education have been found to be of paramount importance to developing

Attentiveness among health care workers, as well as improving adherence to high-quality clinical practice. The greater Attentiveness of Safety among dental staff employed for a longer period at selected dental clinics may reflect their participation in a greater number of training and educational sessions on Safety which not only encouraged safer work practices but also improved concordance with policies and procedures of infection control.

Protective barriers reduce the risk of exposure of the health care worker’s skin or mucous membranes to potentially infectious materials. Protective barriers reduce the risk of exposure to blood and other body fluids to which Safety 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 Safety 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 Sadoh, et al,2010, who reported that less than two-thirds of dental staff claimed that they always used personal protective equipment such as aprons, gowns and gloves, during surgeries.

Despite the fact that 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, there is sometimes a high rate of non-compliance among dental staff and this may be due to a lack of understanding among dental staff of how to properly use protective barriers.23 Furthermore, non-compliance among medical doctors and nurses are associated with insufficient knowledge, workload, forgetfulness, workplace safety and the insight that colleagues also failed to track.

This study showed that there was high level of attentiveness towards safety procedures policies within the study setting. These findings suggest that training of dental staff to maintain and enhance their knowledge about bloodborne pathogens and Safety could improve their use of Safety. Regular training should include the Safety, initial biohazard handling, safety policies, safety activities, safety equipment and materials, continuing monitoring and prospective spotlight of medical personnel.

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References


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