Assessment of Staff Perception toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia

Dr. Hamoud Hassan Alshari¹, Asim Abdulrahman M. Al_Qarni², Dr. Raed Abdullah Alshahrani³

¹, ³Dental Intern
²Medical Intern

Abstract: Currently, dental problems, trauma, and congenital defects can result in both soft tissue and hard tissue defects that can present with aesthetic problems. The management of these problems may be limited to prevention or surgical management which can result in significant morbidity especially if a second surgical site for grafting is utilized. There are a variety of techniques and materials that allow the clinician to manage these problems. Oral surgery is any procedure that involves cutting into or removing tissue from your mouth. It includes procedures like removing a tooth, gum surgery, and getting dental implants. Oral surgery also includes getting rid of diseased tissue from the mouth, correcting jaw problems, or repairing a cleft lip or palate. Furthermore, there are many different types of oral surgery dealing with the various components of the oral cavity and jaw structure. When a patient needs oral surgery, he will visit an oral surgeon to discuss his options. Some of the different types of oral surgery include the removal of impacted teeth, extraction of teeth, root canals, and surgeries for jaw related problems. Leading up to surgery, the oral surgeon will thoroughly review the procedure and requirements for a successful surgery. This will include taking x-rays and reminding the patient of some surgery basics. Directions can also include not eating or drinking anything for a specified time period proceeding surgery and making sure a ride is available, should the patient be having a surgery that requires anesthesia. Methods: A descriptive research design was utilized in the current research. A total of 100 Dental Staff at selected operative clinics was given a structured questionnaire On June, 2017. Their reply reflects that there was a high level of the studied toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia. Further data were collected based on selected cases to investigate the success and survival of post. In which Dates of interventions like restorations, repairs, replacements and extractions were recorded. Additionally, general information about patients and dentitions as well as periodontal status was recorded. Success was analyzed using Kaplan-Meier statistics and a multivariate Cox regression analysis was performed to assess variables influencing success and survival. According to the Cox regression, increasing maximum pocket depth of the tooth resulted in a higher risk for failure (p=0.012). Descriptive statistics like percentage was used to describe the findings using SPSS 20. Results: The current research study aim was to assess the staff perspective toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia, which was found to be (86.2%). Cox regression analysis was performed to assess variables influencing success and survival. A higher risk for failure, the collected findings showed significant differences (p=0.03). Conclusions: Concerning the Dental Staff perspective toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia, the data findings showed that; there was a Approximately high level of perspective for Dental Staff about the Management of Such cases within the selected setting.

Keywords: Perception, Periodontal Status & Dental Operative techniques

1. Introduction

The removal of impacted teeth, which commonly is done to the wisdom teeth, is one of the many types of oral surgery. Wisdom teeth are also considered the third set of molars. They often come in misaligned and become impacted. This can lead to pain and swelling at the site of the affected wisdom tooth. These teeth need to be surgically removed to prevent damage to surrounding teeth. Extraction of infected or damaged teeth represents another type of oral surgery. During extraction, the affected tooth is removed. Depending on the location of the tooth, a dental implant may be recommended to replace the tooth to prevent future problems with alignment. (Weiger, Rosendahl & Lost, 2010).

For those teeth with infections caused by cracks or cavities in the tooth, a root canal may be recommended in place of a total extraction. With a root canal, the decayed nerve and any infection is removed from the tooth. Restoration of the surface of the tooth is often necessary and is done by using a crown to cover the large hole or decayed portion of the tooth. (Scotti., et al., 2015).

Gradually but surely, it is appropriate clear that factors further than the quality of endodontic management relatively significant in decisive long-term outcomes. For illustration, Surgeries related to fixing jaw related problems are another example of the different types of oral surgery. Examples include surgery to improve the fit of dentures and surgeries to correct temporomandibular joint (TMJ) problems. This type of oral surgery can often improve the ability to eat, swallow, and speak for patients experiencing jaw problems and conditions. (Skupien, et al., 2013).

According to McMurdo &Gillespie, (2000), Other types of oral surgeries exist to help solve problems related to teeth and jaw health. This includes surgeries to reconstruct facial bones after injury. Other examples include repairing cleft lip or cleft palate and surgery to remove infection in the teeth or jaw areas. Woodford & George, (2009), mentioned that Unsightly recession defects may present with concomitant buccal cervical cavities which may require restoration to
2. Material and Methods

The present study is being to assess the staff perspective toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia. A descriptive research design was utilized in the current research. A total of 100 Novice Dental Staff of selected Dental Clinics, Saudi Arabia, were given a structured questionnaire during June 2016. This number constitute, more than two third of the Novice Dental Staff of the time of data collection. All wards representing units concerning all the subspecialties were consider as a setting for the current research. The Novice Dental Staff at each unit was contacted to discuss the importance of the research and the study protocol. An anonymous 20-items questionnaire was adopted from valid & reliable tool using the guidelines from a Taxonomy for Augustine (1993). All questions had fixed answer categories.

Looking forwards prevention strategies for improving the management outcome. A previous report describes the parent data set and the recorded variables for the current study. Self-assessment tool to assess the staff perspective toward Dental Operative techniques at Selected Dental Clinics, Saudi Arabia, were used for collecting data for this practice-based survival study.

Additionally, general information about patients and dentitions as well as periodontal status was recorded. Success was analyzed using Kaplan-Meier statistics and a multivariate Cox regression analysis was performed to assess variables influencing success and survival.

The inclusion criteria for the selected cases were had 19 teeth were extracted and 27 restorations needed repair or replacement. According to the Cox regression, increasing maximum pocket depth of the tooth resulted in a higher risk for failure (p=0.012).

Statistical analyses were performed with SPSS 20 (SPSS Inc., Chicago IL, USA) and R (v. 3.0.2: R. Foundation for Statistical Computing, Vienna, Austria). For visualization of the effect of the post-operative variables, Kaplan-Meier curves were constructed for both success and survival. Moreover, the data were analyzed to reflect the Total Mean of the Assessment of Staff Perspective toward dental operative techniques at Selected Dental Clinics, Saudi Arabia.

3. Results

Table 1: Table Classification of Surgical Operation: Assessment of Staff Perspective toward dental operative techniques at Selected Dental Clinics, Saudi Arabia

<table>
<thead>
<tr>
<th>Classification of Surgical Operation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery involving the pulp or root of the tooth</td>
<td>918</td>
</tr>
<tr>
<td>Dental Prosthetics</td>
<td>903</td>
</tr>
<tr>
<td>Orthodontic Treatment</td>
<td>905</td>
</tr>
<tr>
<td>Periodontics</td>
<td>914</td>
</tr>
</tbody>
</table>
Table 2: Mean of the Assessment of Staff Perspective toward dental operative techniques at Selected Dental Clinics, Saudi Arabia

<table>
<thead>
<tr>
<th>Items</th>
<th>Assessment of Staff Perspective toward dental operative techniques at Selected Dental Clinics, Saudi Arabia</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery involving the pulp or root of the tooth</td>
<td>89</td>
<td>95.33%</td>
</tr>
<tr>
<td>Dental Prosthetics</td>
<td>96</td>
<td>92.66%</td>
</tr>
<tr>
<td>Orthodontic Treatment</td>
<td>79</td>
<td>77.33%</td>
</tr>
<tr>
<td>Periodontics</td>
<td>85</td>
<td>71.33%</td>
</tr>
<tr>
<td>Mean</td>
<td>79</td>
<td>76.2%</td>
</tr>
</tbody>
</table>

Figure 1: Mean of Assessment of Staff Perspective toward dental operative techniques at Selected Dental Clinics, Saudi Arabia

4. Discussion

The current research study was aiming at assessing the level of perspectives of the staff towards dental operative techniques, which was found to be (76.2%) in this study. Findings were consistent with the study results carried out by Johansson, et al. (2016), who built their point of view based on the level of staff opinions regarding the staff towards the dental operative techniques in 411 patients, where most of the patients were advanced periodontal cases rehabilitated with fixed prostheses, the 10-year survival rate was high: 86% and the most common reason for extraction was recurrent dental problems (56%).

In a more recent study evaluating 50 molar teeth restored with crowns, the occurrence of negative events, apart from extractions also including re-treatments, was found to be related to attachment loss of the tooth and "prognostic value". Furthermore, the present study results found to be congruent with the findings of the researches carried out by Setzer, et al. (2011) & Timmerman, & Van der Weijden, (2015), who conclude that the level of staff perspectives concerning the dental operative techniques, was reflecting a total mean score of (78.6%).

Moreover, studies on designing education programs showed that the most effective educational programs were based on theory-based approaches rooted in behavior change patterns. The very first step to plan an education program is to choose a proper pattern or theory in health education while effective health education directly depends on the dominance on using best theories and proper approaches based on the fate of post dental operation.

This is in accordance with the study of Setzer, et al. (2011), where the need for retreatment or extraction was associated with pre-operative attachment loss of the tooth. The size of the effect, as may be seen by the divergence of the Kaplan-Meier curves, is substantial. The calculated hazard ratio of 1.60 indicates that every extra mm of maximum pocket depth increases the risk of failure of the operative procedures by 25%.

5. Conclusions

The current research study was aiming at assessing the staff perspective towards dental operative techniques at selected dental Clinics. Looking forward prevention strategies for improving the management outcome.

A descriptive research design was utilized in the current research. A total of 100 Dental Staff at selected dental clinics was given a structured questionnaire. The current research study aim was to assess the staff perspective towards dental operative techniques which was found to be (76.2%). Furthermore, for treated cases that were had a successful prognosis. According to the Cox regression, increasing maximum pocket depth of the tooth resulted in a higher risk for failure, the collected findings showed significant differences (p=0.003).

The current study recommends utilization of continuous educational measures to enhance the dental staff to increase their knowledge towards dental operative techniques within the study setting. Furthermore, applying performance feedback and increased availability of specialist of knowledge of the Novice Dental Staff towards the dental operative techniques. Looking forwards prevention strategies for improving the management outcome.
6. Acknowledgements

The authors thank all the dental staff who were cooperating & actively participating on the current research.

References


