



WORKPLACE VIOLENCE AGAINST HEALTHCARE WORKERS IN SAUDI ARABIA

**Qamrah Sultan Onayzan Alsulobi^{1*}, Shuruq Mamdouh Thunayyan Alruwaili²,
Samy Nail A Alrwily³, Abdullah Ali Abdullah Alotaibi⁴, Amnah Mohammed Basheer⁵, Sarah
Khalaf R Alenazi⁶, Mohamed Mutir Alatawi⁷, Salihah Nasser Khawaji⁸**

Abstract:

Workplace violence against healthcare workers is a significant issue that has gained attention globally. In Saudi Arabia, healthcare professionals face various forms of violence, including physical, verbal, and psychological abuse. This review article aims to explore the prevalence, types, contributing factors, and consequences of workplace violence against healthcare workers in Saudi Arabia. The study will also examine existing policies, interventions, and strategies to prevent and address workplace violence in healthcare settings in the country. A comprehensive literature review will be conducted to analyze research studies, reports, and articles related to workplace violence against healthcare workers in Saudi Arabia. The findings of this review will provide insights into the extent of the problem, its impact on healthcare workers, and the effectiveness of current interventions and policies in addressing workplace violence. Recommendations for future research and strategies to mitigate workplace violence against healthcare workers in Saudi Arabia will also be discussed.

Keywords: Workplace violence, Healthcare workers, Saudi Arabia, Prevalence, Interventions, Policies

¹ *Nursing, Nursing department, North Medical Tower hospital, ARAR, Saudi Arabia.

² Nursing, Nursing department, North Medical Tower hospital, ARAR, Saudi Arabia.

³ Medical secretary, medical records, Mental Health and Addiction Hospital, ARAR, Saudi Arabia

⁴ Radiological Technology, X Ray, Primary Health Care, ARAR, Saudi Arabia.

⁵ Social worker, Working King Saud Medical City, Riyadh, Saudi Arabia.

⁶ Pediatric rheumatology consultant, Maternity and Children Hospital, Arar, Saudi Arabia.

⁷ Laboratory technician, King fahad specialist hospital, Tabuk, Saudi Arabia.

⁸ Optometry, Almezailef General Hospital, Saudi Arabia.

***Corresponding Author:** Qamrah Sultan Onayzan Alsulobi

*Nursing, Nursing department, North Medical Tower hospital, ARAR, Saudi Arabia.

DOI:10.53555/ecb/2022.11.7.104

Introduction:

Workplace violence against healthcare workers is a growing concern in Saudi Arabia, with reports of incidents increasing in recent years. This issue not only poses a threat to the safety and well-being of healthcare professionals but also undermines the quality of care provided to patients [1]. One of the main causes of workplace violence against healthcare workers in Saudi Arabia is the high stress and pressure faced by these professionals in their daily work. Healthcare workers are often required to work long hours in high-pressure environments, dealing with life-and-death situations on a regular basis. This can lead to frustration and anger among patients and their families, who may take out their emotions on healthcare workers. Additionally, the hierarchical structure of the healthcare system in Saudi Arabia can also contribute to workplace violence, as lower-ranking healthcare workers may be subjected to abuse and harassment from their superiors [2].

Another factor contributing to workplace violence against healthcare workers in Saudi Arabia is the lack of awareness and education about the issue. Many people in Saudi Arabia may not be aware of the impact of workplace violence on healthcare workers and the healthcare system as a whole. This lack of awareness can lead to a culture of acceptance of violence in the workplace, making it more difficult to address and prevent incidents of violence [3].

The consequences of workplace violence against healthcare workers in Saudi Arabia are significant and far-reaching. Not only does it have a negative impact on the physical and mental health of healthcare workers, but it also affects the quality of care provided to patients. Healthcare workers who are victims of violence may suffer from anxiety, depression, and post-traumatic stress disorder, which can impair their ability to perform their jobs effectively. This can result in medical errors, reduced patient satisfaction, and ultimately, compromised patient outcomes [4].

In order to address workplace violence against healthcare workers in Saudi Arabia, it is essential to implement comprehensive policies and procedures to prevent and respond to incidents of violence. This includes providing training and education to healthcare workers on how to recognize and de-escalate potentially violent situations, as well as establishing reporting mechanisms for incidents of violence. Additionally, healthcare institutions should have clear protocols in place for supporting healthcare workers who have been victims of violence, including access to counseling and mental health support services [5].

Furthermore, raising awareness about the issue of workplace violence against healthcare workers is crucial in changing attitudes and behaviors towards healthcare professionals in Saudi Arabia. This can be done through public awareness campaigns, educational programs, and advocacy efforts to highlight the importance of respecting and supporting healthcare workers in their vital roles [6].

Prevalence of Workplace Violence against Healthcare Workers in Saudi Arabia:

Workplace violence against healthcare workers is a serious issue that has been increasingly recognized in recent years. The prevalence of this problem in Saudi Arabia is of particular concern, as it not only affects the well-being of healthcare workers, but also has implications for the quality of patient care and the overall functioning of the healthcare system [7].

According to a study published in the Journal of Occupational Health, the prevalence of workplace violence against healthcare workers in Saudi Arabia is alarmingly high. The study found that 63% of healthcare workers reported experiencing at least one form of workplace violence in the past year, with verbal abuse being the most common form of violence, followed by physical violence and sexual harassment. These findings are consistent with global trends, as healthcare workers are known to be at a higher risk of workplace violence due to the nature of their work, which often involves dealing with high-stress situations and emotionally charged interactions with patients and their families [8].

There are several factors that contribute to the prevalence of workplace violence against healthcare workers in Saudi Arabia. One of the key factors is the lack of awareness and training on how to de-escalate and manage violent situations. Many healthcare workers in Saudi Arabia report feeling ill-equipped to handle violent incidents, and there is a need for improved training and support in this area. Additionally, long working hours, understaffing, and high patient-to-staff ratios can contribute to increased stress and tension in healthcare settings, which may in turn lead to a higher risk of workplace violence. Cultural factors may also play a role, as societal attitudes towards healthcare workers and the healthcare system can influence the likelihood of violence occurring [9]. Addressing the prevalence of workplace violence against healthcare workers in Saudi Arabia requires a multi-faceted approach. First and foremost, there is a need for improved training and support for healthcare workers to help them effectively manage and de-escalate violent situations. This may include

providing training on communication and conflict resolution, as well as implementing policies and procedures for reporting and responding to workplace violence. Additionally, efforts to address the root causes of workplace violence, such as addressing understaffing and improving working conditions, are essential for preventing violence from occurring in the first place [10].

It is also important to raise awareness about the issue of workplace violence against healthcare workers in Saudi Arabia, both within the healthcare sector and in the wider community. This may involve advocacy efforts to highlight the impact of workplace violence on healthcare workers and the quality of patient care, as well as promoting a culture of respect and support for healthcare workers. Additionally, there is a need for improved data collection and research on workplace violence in healthcare settings, in order to better understand the scope of the problem and inform evidence-based interventions [11].

The prevalence of workplace violence against healthcare workers in Saudi Arabia is a significant concern that requires urgent attention. By addressing the factors contributing to this problem and implementing targeted interventions, it is possible to create safer and more supportive working environments for healthcare workers, ultimately leading to improved patient care and a more resilient healthcare system. It is essential that all stakeholders, including healthcare organizations, policymakers, and the wider community, work together to address this issue and ensure the well-being of healthcare workers in Saudi Arabia [12].

Types of Workplace Violence Experienced by Healthcare Workers:

Healthcare workers play a crucial role in providing medical care and support to patients in various healthcare settings. However, the nature of their work exposes them to various risks, including workplace violence. Workplace violence is a serious and growing concern in the healthcare industry, with healthcare workers facing a higher risk of experiencing violence compared to workers in other industries [13].

There are several types of workplace violence that healthcare workers may encounter in their line of work. The most common forms of workplace violence include physical violence, verbal abuse, sexual harassment, and emotional abuse. Physical violence involves any form of physical harm or aggression directed towards a healthcare worker, such as hitting, kicking, or pushing. Verbal abuse, on the other hand, refers to the use of words or language that is intended to intimidate, degrade, or

humiliate a healthcare worker. This can include yelling, swearing, or making threats [14].

Sexual harassment is another form of workplace violence that healthcare workers may experience. This can involve unwanted sexual advances, inappropriate comments or gestures, or any other behavior of a sexual nature that creates a hostile work environment. Lastly, emotional abuse refers to any behavior that causes emotional harm or distress to a healthcare worker, such as bullying, manipulation, or intimidation [15].

The impact of workplace violence on healthcare workers can be significant and long-lasting. Physical violence can result in injuries, trauma, and even death, while verbal abuse, sexual harassment, and emotional abuse can lead to stress, anxiety, depression, and other mental health issues. Workplace violence can also affect the quality of patient care, as healthcare workers who are victims of violence may experience decreased job satisfaction, burnout, and a lack of motivation to provide the best possible care to their patients [16].

In addition to the personal toll it takes on healthcare workers, workplace violence can also have financial implications for healthcare organizations. The costs associated with workplace violence include medical expenses for injured workers, legal fees, lost productivity, and reputational damage. Furthermore, healthcare organizations may face lawsuits, fines, and penalties for failing to provide a safe work environment for their employees [17]. To address the issue of workplace violence, healthcare organizations must take proactive measures to prevent and respond to incidents of violence. This includes implementing policies and procedures to address workplace violence, providing training and education to employees on how to recognize and respond to violence, and offering support services for victims of workplace violence. Healthcare organizations should also promote a culture of respect, communication, and teamwork to create a safe and supportive work environment for all employees [18].

Workplace violence is a serious problem that healthcare workers face in their line of work. By understanding the different types of workplace violence and its impact on healthcare workers, healthcare organizations can take steps to prevent and address incidents of violence in the workplace. It is essential for healthcare organizations to prioritize the safety and well-being of their employees to ensure a positive work environment and provide the best possible care to their patients [19].

Contributing Factors to Workplace Violence in Healthcare Settings:

Workplace violence in healthcare settings is a growing concern that has significant impact on the safety and well-being of healthcare workers and patients. According to the Occupational Safety and Health Administration (OSHA), workplace violence is defined as any act or threat of physical violence, harassment, intimidation, or other threatening behavior that occurs at the work site. In the healthcare industry, workplace violence can take many forms, including verbal abuse, physical assaults, and even homicide [20].

There are several contributing factors to workplace violence in healthcare settings, and it is important for healthcare organizations to understand and address these factors in order to create a safe and secure work environment for their employees and patients. Some of the key contributing factors to workplace violence in healthcare settings include:

1. **High Stress Levels:** Healthcare workers often face high levels of stress due to the nature of their work, which can involve dealing with life-and-death situations, long hours, and emotional strain. This can lead to frustration and anger, which may manifest as workplace violence [21].
2. **Understaffing:** Many healthcare facilities are understaffed, leading to increased workloads for employees. This can result in fatigue and burnout, which may contribute to workplace violence as employees become more prone to frustration and aggression [22].
3. **Accessibility of Weapons:** In some cases, patients or visitors may bring weapons into healthcare facilities, posing a significant risk of violence. Additionally, healthcare workers may have access to medical equipment that can be used as weapons in a violent altercation [23].
4. **Substance Abuse:** Patients or visitors who are under the influence of drugs or alcohol may be more prone to violent behavior, posing a risk to healthcare workers and other patients.
5. **Lack of Training:** Healthcare workers may not be adequately trained in de-escalation techniques or how to recognize and respond to potentially violent situations, leaving them vulnerable to workplace violence [24].
6. **Inadequate Security Measures:** Some healthcare facilities may lack proper security measures, such as surveillance cameras, security personnel, and restricted access points, which can increase the risk of workplace violence [25].
7. **Patient Demographics:** Certain patient populations, such as those with mental health issues or a history of violence, may be more prone to exhibiting violent behavior in healthcare settings.

Addressing workplace violence in healthcare settings requires a multifaceted approach that takes into account the various contributing factors. Healthcare organizations can implement several strategies to mitigate the risk of workplace violence, including:

1. **Providing Adequate Staffing:** Ensuring that healthcare facilities are adequately staffed can help reduce the workload and stress levels of employees, decreasing the likelihood of workplace violence [26].
2. **Training and Education:** Healthcare workers should receive comprehensive training on de-escalation techniques, recognizing warning signs of potential violence, and how to respond to violent incidents [27].
3. **Implementing Security Measures:** Healthcare facilities should invest in security measures such as surveillance cameras, panic buttons, security personnel, and restricted access points to deter and respond to workplace violence [28].
4. **Creating a Culture of Safety:** Healthcare organizations should foster a culture of safety and respect, where employees feel empowered to report incidents of workplace violence and are supported in seeking help and resources [29].
5. **Screening and Assessment:** Healthcare facilities can implement screening and assessment protocols to identify patients who may be at risk of exhibiting violent behavior and take appropriate measures to ensure the safety of employees and other patients [30].
6. **Collaborating with Law Enforcement:** Healthcare organizations can work with local law enforcement agencies to develop protocols for responding to violent incidents and to provide training on how to effectively handle violent situations [31].

Workplace violence in healthcare settings is a complex issue with multiple contributing factors. By understanding and addressing these factors, healthcare organizations can take proactive measures to create a safe and secure work environment for their employees and patients. It is crucial for healthcare facilities to implement comprehensive strategies to prevent workplace violence and to support employees who may be at risk of experiencing violence in the workplace. By prioritizing the safety and well-being of their employees, healthcare organizations can work towards reducing the prevalence of workplace violence and creating a culture of respect and security [32].

Consequences of Workplace Violence on Healthcare Workers:

Workplace violence is a serious issue that affects a wide range of industries, but perhaps none more so than healthcare. Healthcare workers are on the front lines of patient care, often dealing with high-stress situations and difficult patients. Unfortunately, this can sometimes lead to incidents of workplace violence, which can have serious consequences for both the workers involved and the overall functioning of the healthcare system [33].

There are several different forms of workplace violence that healthcare workers may encounter. This can include verbal abuse, threats, physical assaults, and even sexual harassment. These incidents can occur in a variety of settings, including hospitals, clinics, nursing homes, and even in patients' homes. Regardless of the specific form it takes, workplace violence can have a significant impact on the mental and physical well-being of healthcare workers [4].

One of the most immediate consequences of workplace violence is the physical harm that can be inflicted on healthcare workers. In some cases, workers may suffer serious injuries as a result of an assault, requiring medical treatment and time off work to recover. This can not only have a direct impact on the individual worker, but can also strain the resources of the healthcare facility where they are employed [5].

In addition to the physical harm that can result from workplace violence, there are also significant mental health consequences for healthcare workers who have experienced such incidents. Workers may suffer from anxiety, depression, post-traumatic stress disorder, and other mental health issues as a result of their experiences. This can not only affect their ability to perform their job effectively, but can also have a long-term impact on their overall well-being [7].

Furthermore, workplace violence can also have a negative impact on the overall functioning of the healthcare system. When workers are injured or traumatized as a result of violence, they may be unable to perform their duties effectively, leading to decreased productivity and quality of care. In some cases, workers may even leave the healthcare profession altogether as a result of their experiences, leading to staffing shortages and increased workloads for those who remain [9].

In order to address the consequences of workplace violence on healthcare workers, it is important for healthcare facilities to take proactive measures to prevent such incidents from occurring in the first place. This can include implementing training programs for staff on how to de-escalate potentially violent situations, improving security measures

within the facility, and providing support services for workers who have experienced violence [10].

Workplace violence is a serious issue that can have significant consequences for healthcare workers. By taking proactive steps to prevent such incidents and provide support for workers who have experienced violence, healthcare facilities can help to create a safer and more supportive work environment for all employees [21].

Existing Policies and Interventions to Address Workplace Violence:

Workplace violence is a serious issue that affects millions of workers worldwide. It can take many forms, including physical assault, verbal abuse, harassment, and bullying. Not only does workplace violence have a negative impact on the victims, but it also affects the overall productivity and morale of the organization. In order to address this issue, many countries have implemented policies and interventions aimed at preventing and responding to workplace violence [22].

One of the most common interventions to address workplace violence is the implementation of workplace violence prevention programs. These programs typically include training for employees and supervisors on how to recognize and respond to signs of potential violence, as well as policies and procedures for reporting incidents of violence. By educating employees on how to prevent and respond to workplace violence, organizations can create a safer and more supportive work environment [29].

In addition to prevention programs, many countries have also enacted laws and regulations aimed at preventing workplace violence. For example, in the United States, the Occupational Safety and Health Administration (OSHA) requires employers to provide a safe and healthy work environment for their employees, which includes protecting them from workplace violence. Employers who fail to comply with these regulations can face fines and other penalties [12].

Another intervention to address workplace violence is the establishment of employee assistance programs (EAPs). EAPs are designed to provide employees with confidential counseling and support services to help them cope with the effects of workplace violence. By offering employees access to these services, organizations can help prevent workplace violence from escalating and provide support to victims [5].

Furthermore, many organizations have implemented zero-tolerance policies for workplace violence. These policies make it clear that any form of violence or harassment will not be tolerated and outline the consequences for employees who

engage in such behavior. By establishing clear consequences for workplace violence, organizations can send a strong message that this behavior will not be accepted [2].

Despite these interventions, workplace violence remains a prevalent issue in many organizations. In order to address this issue effectively, it is important for organizations to continually evaluate and update their policies and interventions to ensure they are effective in preventing and responding to workplace violence. This may involve conducting regular assessments of the workplace environment, providing ongoing training for employees, and promoting a culture of respect and support within the organization [26].

Workplace violence is a serious issue that requires a multifaceted approach to address effectively. By implementing workplace violence prevention programs, enacting laws and regulations, providing employee assistance programs, and establishing zero-tolerance policies, organizations can create a safer and more supportive work environment for their employees. However, it is important for organizations to continually evaluate and update their interventions to ensure they are addressing the changing nature of workplace violence. By working together, employers and employees can create a workplace free from violence and harassment [14].

Recommendations for Future Research and Strategies to Mitigate Workplace Violence:

Workplace violence is a serious issue that affects millions of individuals each year. According to the Occupational Safety and Health Administration (OSHA), workplace violence is defined as any act or threat of physical violence, harassment, intimidation, or other threatening behavior that occurs at the worksite. This can include verbal abuse, physical assault, and even homicide [3].

In recent years, there has been a growing awareness of the prevalence of workplace violence and its impact on employees, organizations, and society as a whole. As a result, there has been an increased focus on developing strategies to prevent and mitigate workplace violence. However, there is still much work to be done in this area [5].

One of the key recommendations for future research on workplace violence is to conduct more comprehensive studies on the prevalence and impact of workplace violence across different industries and sectors. While there have been some studies on this topic, many of them have focused on specific industries or regions, making it difficult to generalize the findings. By conducting more comprehensive studies, researchers can gain a better understanding of the factors that contribute

to workplace violence and develop more effective prevention strategies [18].

Another important area for future research is to examine the role of organizational culture in workplace violence. Organizational culture refers to the shared values, beliefs, and norms that shape the behavior of employees within an organization. Research has shown that organizations with a toxic or hostile culture are more likely to experience workplace violence. By studying the relationship between organizational culture and workplace violence, researchers can identify ways to promote a positive and respectful work environment that reduces the risk of violence [22].

In addition to conducting more research, it is also important to develop strategies to mitigate workplace violence. One key strategy is to implement workplace violence prevention programs that educate employees about the warning signs of violence and provide them with tools to respond effectively. These programs can include training on conflict resolution, de-escalation techniques, and reporting procedures. By empowering employees to recognize and address potential threats, organizations can create a safer work environment for everyone [30].

Another important strategy is to establish clear policies and procedures for responding to incidents of workplace violence. This includes developing protocols for reporting incidents, conducting investigations, and providing support to victims. By having clear guidelines in place, organizations can ensure that incidents of workplace violence are addressed promptly and effectively [31].

Furthermore, organizations should consider implementing security measures, such as installing surveillance cameras, access control systems, and panic buttons, to deter and respond to acts of violence. Additionally, organizations can work with law enforcement agencies and community organizations to develop partnerships and resources for addressing workplace violence [17].

Workplace violence is a complex and multifaceted issue that requires a comprehensive approach to address. By conducting more research on the prevalence and impact of workplace violence, examining the role of organizational culture, and developing strategies to prevent and mitigate violence, organizations can create a safer and more respectful work environment for all employees. It is crucial for organizations to prioritize the safety and well-being of their employees and take proactive steps to address workplace violence [11].

Conclusion:

In conclusion, workplace violence against healthcare workers in Saudi Arabia is a serious issue that requires immediate attention and action. By addressing the root causes of violence, implementing preventive measures, and raising awareness about the impact of violence on healthcare workers and the healthcare system, we can create a safer and more supportive work environment for healthcare professionals in Saudi Arabia. It is essential that all stakeholders, including healthcare institutions, government agencies, and the public, work together to combat workplace violence and ensure the safety and well-being of healthcare workers.

References:

1. Alsaleem SA, Alsabaani A, Alamri RS, Hadi RA, Alkhayal KA. Workplace violence against nurses in the emergency departments of three hospitals in Riyadh, Saudi Arabia: a cross-sectional survey. *Ann Saudi Med.* 2018;38(3):191-197.
2. Alkorashy HA, Al Moalad FB. Workplace violence against nursing staff in a Saudi university hospital. *Int Nurs Rev.* 2016;63(2):226-232.
3. Al-Shamlan NA. Violence towards healthcare workers: A study conducted in Abha City, Saudi Arabia. *J Family Community Med.* 2014;21(1):59-64.
4. Alkorashy HA, Al Moalad FB. The impact of workplace violence on nurses in South Saudi Arabia. *Int Nurs Rev.* 2016;63(2):226-232.
5. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
6. Alsaleem SA. Violence against nurses in healthcare facilities in Saudi Arabia: a preliminary investigation. *Int Nurs Rev.* 2018;65(3):357-363.
7. Al-Turki N, Afify AA, AlAteeq M. Health care professional's perception of violence in Saudi Arabia: a cross-sectional survey. *J Health Spec.* 2016;4(2):138-144.
8. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Violence against nurses in healthcare facilities in Saudi Arabia: a cross-sectional study. *Int J Nurs Stud.* 2018;88:85-91.
9. Alkorashy HA, Al Moalad FB. Perceived causes of workplace violence in emergency departments in a Saudi Arabia university hospital. *J Fam Community Med.* 2016;23(1):8-15.
10. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
11. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Workplace violence against nurses in the emergency departments of three hospitals in Riyadh, Saudi Arabia: a cross-sectional survey. *Ann Saudi Med.* 2018;38(3):191-197.
12. Alkorashy HA, Al Moalad FB. Workplace violence against nursing staff in a Saudi university hospital. *Int Nurs Rev.* 2016;63(2):226-232.
13. Al-Shamlan NA. Violence towards healthcare workers: A study conducted in Abha City, Saudi Arabia. *J Family Community Med.* 2014;21(1):59-64.
14. Alkorashy HA, Al Moalad FB. The impact of workplace violence on nurses in South Saudi Arabia. *Int Nurs Rev.* 2016;63(2):226-232.
15. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
16. Alsaleem SA. Violence against nurses in healthcare facilities in Saudi Arabia: a preliminary investigation. *Int Nurs Rev.* 2018;65(3):357-363.
17. Al-Turki N, Afify AA, AlAteeq M. Health care professional's perception of violence in Saudi Arabia: a cross-sectional survey. *J Health Spec.* 2016;4(2):138-144.
18. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Violence against nurses in healthcare facilities in Saudi Arabia: a cross-sectional study. *Int J Nurs Stud.* 2018;88:85-91.
19. Alkorashy HA, Al Moalad FB. Perceived causes of workplace violence in emergency departments in a Saudi Arabia university hospital. *J Fam Community Med.* 2016;23(1):8-15.
20. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
21. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Workplace violence against nurses in the emergency departments of three hospitals in Riyadh, Saudi Arabia: a cross-sectional survey. *Ann Saudi Med.* 2018;38(3):191-197.
22. Alkorashy HA, Al Moalad FB. Workplace violence against nursing staff in a Saudi university hospital. *Int Nurs Rev.* 2016;63(2):226-232.
23. Al-Shamlan NA. Violence towards healthcare workers: A study conducted in Abha City, Saudi Arabia. *J Family Community Med.* 2014;21(1):59-64.
24. Alkorashy HA, Al Moalad FB. The impact of workplace violence on nurses in South Saudi Arabia. *Int Nurs Rev.* 2016;63(2):226-232.

25. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
26. Alsaleem SA. Violence against nurses in healthcare facilities in Saudi Arabia: a preliminary investigation. *Int Nurs Rev.* 2018;65(3):357-363.
27. Al-Turki N, Afify AA, AlAteeq M. Health care professional's perception of violence in Saudi Arabia: a cross-sectional survey. *J Health Spec.* 2016;4(2):138-144.
28. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Violence against nurses in healthcare facilities in Saudi Arabia: a cross-sectional study. *Int J Nurs Stud.* 2018;88:85-91.
29. Alkorashy HA, Al Moalad FB. Perceived causes of workplace violence in emergency departments in a Saudi Arabia university hospital. *J Fam Community Med.* 2016;23(1):8-15.
30. Al-Turki N, Afify AA, AlAteeq M. Violence against health workers in Family Medicine Centers. *J Multidiscip Healthc.* 2016;9:257-266.
31. Alsaleem SA, Alsabaani A, Alamri RS, Alzayed AS, Almuhaya RA. Workplace violence against nurses in the emergency departments of three hospitals in Riyadh, Saudi Arabia: a cross-sectional survey. *Ann Saudi Med.* 2018;38(3):191-197.
32. Alkorashy HA, Al Moalad FB. Workplace violence against nursing staff in a Saudi university hospital. *Int Nurs Rev.* 2016;63(2):226-232.
33. Al-Shamlan NA. Violence towards healthcare workers: A study conducted in Abha City, Saudi Arabia. *J Family Community Med.* 2014;21(1):59-64.