

Workplace Violence Against Nurses in the European Union

In 2021, 23% of the health sector workforce in the European Union (EU) experienced at least one form of negative social behaviour during the last 12 months of work¹.

Workplace violence broadly refers to the "violent acts, including physical assault and threats of assault, directed towards persons at work or on duty"². The European Agency for Safety and Health at Work wrote that "work-related violence refers to both physical and psychological violence directed at employees from either outside or inside the workplace [...] including behaviours that humiliate, degrades or intentionally deteriorates a person's well-being and dignity"³. A systemic review of the incidence of workplace violence showed that the health care sector is among the sectors with the highest violence levels, and that health professionals are 16 times more at risk of violence than other professionals^{4,5,6,7}.

The World Medical Association recently denounced the problem of workplace violence towards nurses as an international emergency that "undermines the very foundations of health systems and impacts critically on patient's health"⁸. The problem of verbal and physical violence against nurses is an underestimated component of today's worldwide public health problem. This issue is receiving inadequate attention from policymakers. At the moment, legislative efforts to resolve the problem remain insufficient.

Data and testimonies from EU nurses associations

'Nurses as a group, and women in particular, appear to be especially vulnerable, with double the risk of being the victims of violence.'

The European Federation of Nurses Associations (EFN) has gathered exclusive data on the current

reality of workplace violence against nurses in the European Union (EU). The April 2021 General Assembly meeting focused on "professionbased violence and discrimination". National Nurses Associations of EU Member States shared country-specific data, testimony, and best practices on the topic, aiming to bring it higher on the EU political agenda through the mediating advocacy of EFN. Twenty-eight national nurses' associations across Europe confirmed almost unanimously that violence against nurses is a significant concern, and that current policy efforts are insufficient. The latest data from a study by the National Institute of Occupational Health in Finland found that between 2015 and 2019, client violence against hospital and healthcare staff increased clearly in four years. Representative associations from Denmark, Portugal, and the UK pointed out that up to 30% of nurses are potentially subject to sexual harassment in the workplace⁹.

Three themes emerged from the April 2021 EFN General Assembly, validating much of the findings from the existing literature reviews on the subject^{10,11,12,13,14,15,16}.

Keywords: workplace violence, violence and aggression, PMVA, horizontal violence, Type 2 violence, Type 3 violence, violence against nurses, sexual harassment

The actual rate of assaults against nurses is often much higher than documented."

First is the under-reporting of violent incidents due to fear of victimisation.

Overall, the actual rate of assaults against nurses is often much higher than documented by the published literature; hospitals may even discourage workers from reporting it, as mentioned by a spokesperson from the International Council of Nurses¹⁷.

Surprisingly, the most recurrent reason for underreporting is that nurses do not believe reporting will make any difference^{18,19,20,21}: if nurses feel unsupported by institutions, it fosters a spiral of unrecorded incidences, which leads to legislators developing a distorted perception about the gravity of the problem creating a policy vacuum.

Second, the realisation that perpetrators of violent acts extend beyond the classical category of patients and families and include also health professionals of different ranks. Colleagues from higher ranks, such as doctors and physicians, are often the perpetrators of violence^{22,23,24,25}.

'Communication with nurses is often stereotypic, degrading, lacking respect and consideration for their knowledge and work.'

What is known as 'horizontal' or 'Type 3' violence²⁷ is part of discrediting the nursing profession. Slovenian testimonies shared that gender-based violence against nurses at their workplace is predominantly connected with their weak position in the hierarchical structure of health organisations, subordination, and lack of social and political power. As a consequence, communication with nurses is often stereotypic, degrading, lacking respect and consideration for their knowledge and work. In Germany, up to 41% of nurses reported abuse from other health professionals. This was mentioned also in Ireland, the United Kingdom (UK), and Cyprus⁹. Third, violent incidences have a significant negative effect on nurses' health and retention. Representative associations from Switzerland reported that nurses reduce their working hours or opt for a part-time job as a consequence of violence, increasing up to 70% the likelihood of their leaving the profession⁹.

Why it matters

In the past 15 years, researchers have gathered consistent evidence on the urgency of the problem and the consequence that workplace violence against nurses produces on several interconnected dimensions of society, from the individual health to the collective sustainability of health care systems, to the comprehensive resilience of societies in tackling unexpected challenges such as that of the COVID-19 pandemic^{5,28,29,30}.

Resolving workplace violence against nurses matters for two predominant reasons:

 From an individual standpoint, workplace violence against nurses needs to be resolved to protect the individual health of nurses, both to uphold the fundamental principles of human rights, guaranteeing women the right to working conditions free from harassment and discrimination, and both to maintain those same principles of fundamental rights strong in all circumstances, preserving the individual dignity of health professionals in their everyday work. Nursing is considered a female-driven and female dominant profession. The World Health Organization (WHO) estimated that 89% of nurses worldwide are women³¹.

Workplace violence against nurses needs to be resolved to protect the individual health of nurses.'

At the same time, harassment and female discrimination are a phenomenon that is still predominant in many sectors, including healthcare^{32,30}. Workplace violence against nurses greatly overlaps with elements of violence against women, since many violent incidences reported in health care have taken the form of sexual harassment and gender-based discrimination^{33,34,35}. For this reason, many of the policy efforts aimed at reducing the significant incidence of violence against nurses contribute to combating violence against women.

2. From an organisational standpoint, workplace violence against nurses needs to be resolved to ensure the sustainable functioning of healthcare systems. The delivery of quality health care strongly depends on the availability and working conditions of healthcare personnel who are involved in psychologically and emotionally demanding tasks which often exposes them to a high risk of burnout. The shortage of qualified nurses remains an unresolved challenge for the profession^{36,37,38}. The persistence of workplace violence in healthcare can influence the perceived attractiveness of the job itself, deterring many young adults from choosing to become nurses, with the risk of aggravating even further the occupational bottleneck³⁹. The European Observatory on Health Systems and Policies has recognised healthcare working conditions as a key determinant for improving healthcare quality in Europe⁴⁰.

The pandemic has exacerbated healthcare professionals' workload, responsibilities, and working conditions. In the past two years, the number of violent cases across many European countries has significantly increased^{41,22,42}. The strains on organisational support, the demands, and contact hours with patients have also increased, making it more likely for nurses to be subject to violence, abuse, and harassment.

Workplace violence against nurses is a problem at the cross-section of several other policy challenges that the EU institutions are currently seeking solutions to. These objectives are combating violence against women, and enhancing the quality of healthcare in Europe while accelerating the recovery from the COVID-19 pandemic. Enacting legislative efforts to reduce workplace violence can make a strong contribution to achieving these policy objectives.

Current policy developments

Violence against women is violence against nurses: current legislative initiatives

European institutions have set up several policy initiatives that are relevant to combat workplace violence against nurses. Yet, these initiatives are not binding for EU Member States nor sufficient to address the problem at its root. The very first European framework aimed at setting regulatory standards to address workplace bullying and harassment was the EC Framework Directive 89/391/EEC: having employers become legally responsible for the health and safety at work of their workers⁴³. Sexual harassment has been addressed in the context of equal treatment directives, such as the Council Directive 2000/78/ EC, establishing a general framework for equal treatment in employment and occupation⁴⁴. More recently, the European Commission mentioned the intent to "adopt a new comprehensive legal framework with both preventive and reactive measures against harassment in the workplace" within the new gender equality strategy 2020-2025⁴⁵.

The European Foundation for the Improvement of Living and Working Conditions (Eurofound) highlighted that more women than men report harassment at work⁴⁶. In a recently published survey on violent crime, the European Union Agency for Fundamental Rights (FRA) confirmed that work-related harassment predominantly affects women⁴⁷.

EU gender equality laws recognize harassment within the areas of competency of the labour market and the supply of goods and services (Directive 2006/54/EC, Council Directive 2004/113/EC). At the same time, the Victims' Right Directive recognises sexual harassment as a type of gender-based violence, namely a form of discrimination and violation of the fundamental freedoms of the victim⁴⁷. Nevertheless, the EU has not yet developed a solid unified strategy to counter violence against women through legally binding instruments to specifically protect women from violence.⁴⁸

From an international perspective, there have been several significant legislative steps forward against workplace violence. Since 2019, the Violence and Harassment Convention (N.190) from the International Labour Organization have offered a gender-responsive approach to prevent and eliminate violence and harassment in the workplace. However, among the EU Member States, the convention has been ratified only by Greece and Italy. Europe's only legally binding instrument in the field has been the Convention on preventing and combating violence against women and domestic violence (Istanbul Convention), signed and ratified by most EU Member States as of November 2021⁴⁸.

'EU legislation can have a trickle-down effect on EU Member States in activating further engagement towards policy priorities.'

According to a recent study by the European Parliament, EU Member States that have not ratified the Istanbul Convention are also less likely to fully recognize certain forms of violence, including workplace violence. In doing so, the absence of legal protection and criminal persecution renders the violence itself invisible, contributing in part to under-reporting the estimated real amount of violence against women⁴⁹. At the same time, it was shown that 14 EU countries have adopted national action plans on violence against women since ratifying the Convention; this evidence shows that EU legislation can have a trickle-down effect on EU Member States in activating further engagement towards policy priorities.

As an attempt to bypass the limitations of the Istanbul Convention, the Commission's work programme for 2021 included a legislative proposal to prevent and combat specific forms of gender-based violence, setting standards to criminalise certain forms of violence against women, to the extent of EU competence, inserting these forms of violence as a new area of crime listed in Article 83(1) of the Treaty on the Functioning of the European Union (TFEU)⁴⁸.

Yet, EU Member States have adopted different approaches to the problem, leaving the effort uncoordinated and fragmented. The lack of a comprehensive EU political framework of legally binding instruments to eliminate violence against women affects the ability to reduce workplace violence in female-dominated sectors such as healthcare.

The lack of a comprehensive EU political framework... to eliminate violence against women affects also the ability to reduce workplace violence in... healthcare.'

At the April 2021 EFN General Assembly, the National Nurses Associations mentioned several national policy advancements that are moving towards the recognition of this problem. For instance, Italy approved in 2020 a new law addressing violence against health and sociohealth professionals, along with establishing a National Observatory on the Safety of the Health and Socio-Health Professions under the Ministry of Health. In 2020, Portugal approved the establishment of a Security Office for the Prevention and Combating of Violence against Health Professionals, along with approving two draft resolutions concerning the prevention of violence against health professionals in their workplaces. The National Health Service in the UK published, in 2021, a new national violence prevention and reduction standard, to complement existing health and safety legislation⁹. However, many other EU countries have not yet implemented significant changes in their national legislation to support the policy changes needed.

'EU Member States have adopted separate forms of national action plans targeted at reducing forms of gender-based violence in the workplace.'

The two policy challenges of violence against women and workplace violence against nurses ought to be treated together, given that the two are intrinsically connected: policy advancements in one area can yield results in the other. As the European Commission has been exploring legislative options and opportunities to advance an intersectional approach to combating violence against women, the focus on prevention and protection of violence in the healthcare sector can be an ideal starting point, given the exceptionally high concentration of female workers in health.

So far, EU Member States have adopted separate national action plans targeted at reducing forms of gender-based violence in the workplace. While this is an initial step, there are wide socio-cultural differences among the EU Member States that affect the interpretation of legislation even in the most fundamental subjects such as violence against women, and therefore hinder their ratification^{50,49}.

'It is expected that the countries experiencing the highest number of incidences are also those carrying out the most research on the topic.'

A stronger commitment towards research and data collection

A recent systematic review observed worldwide differences with regards to the prevalence of violence and found that European countries had the lowest prevalence of violence compared to other high-income regions, namely Asian countries, North America (United States, Canada) and Australasia (Australia, New Zealand)^{17,33}. Yet, at the same time, according to a worldwide bibliometric analysis of published literature on violence against healthcare workers, most European countries lag behind the United States, Australia, and the UK in terms of published documents and data about this topic⁵¹. It is expected that the countries experiencing the highest number of incidences are also those carrying out the most research on the topic. We should not exclude the possibility that it is precisely the increased dedication to researching the topic of violence against nurses that might enable these same countries to record the cases of abuse that would otherwise remain underreported.

Although European countries are performing relatively well compared to other regions

around the world in the incidence of violent cases, studies suggest that not reporting is also due to national and professional cultural norms' differences, a characteristic that may be particularly pronounced between EU countries²¹. A 2014 Medscape Ethics study found that European doctors were twice as likely not to report suspected domestic violence than their United States counterparts, suggesting that the recognition of abuses and violence may be subject to the sensibility of cultural settings⁵². The lack of adequate data is a major obstacle to a full picture of workplace violence against nurses in EU countries, which ultimately affects the ability to enforce proper measures³³. This discrepancy between data and reality is also why the EU Parliament has repeatedly called for a coherent system in the collection of relevant statistics on gender-based violence in the Member States⁵³.

"There are specific structural and working conditions that facilitate the occurrence and frequency of violence in most countries."

The newly established European Observatory on Violence against Women and Girls in 2017 has represented a positive step towards filling existing measurement gaps. Eurostat launched a new survey in 2020 with the aim of collecting data on various forms of violence against women, indicating a further positive commitment to resolving the lack of consistent data: the results are due to be public in 2023. Yet, the survey implementation at the national level is purely on a voluntary, which recasts the risk of having an uncoordinated commitment among the EU Member States in collecting data relevant to combat violence against women, including workplace violence⁵³.

Cross-cultural comparative analysis indicates that there are specific structural and working conditions that facilitate the occurrence and frequency of violence in most countries⁵⁴; this is where legislation can have an effective role. A first step in preventing workplace violence is to ensure that violent incidences can be reported and that the problem is well understood, both in its causes and consequences. This calls for a more assertive and cohesive response from the EU institutions in areas that are cross-sectoral and comprehensive, such as healthcare.

'Quality of healthcare depends on the quality of the work environment.'

Current legislative initiatives

Based on the work of the OECD's Health Care Quality Indicators (HCQI) project⁵⁵, the European Commission and WHO concluded that quality healthcare can be defined around three main dimensions: effectiveness, safety, and patientcenteredness^{56,57,58}.

Studies and testimonies have proven that positive working conditions are a prerequisite for the provision of quality health care and for improving both patient and organisational performance outcomes. The organisational and societal costs of leaving workplace violence in healthcare unchecked are underestimated, as much as its consequences on the sustainability of entire national health care systems. The stable delivery of quality health care depends upon the ability of healthcare employees to do their job in adequate working conditions.

One of the founding priority areas for achieving Health 2020 (see below) is "ensuring positive work environments"³¹. Violence in the workplace hinders this objective. Health 2020 is the EU's most recent policy framework aimed at a renewed commitment to uphold health and wellbeing as a priority among the EU Member States.

Over 80% of the 191 countries responding to the WHO/ICN Nursing 2020 report said that having regulation on working conditions remains a major driver of "attractiveness of employment, performance and productivity, and retention of the health workforce"³¹.

'Regulation of working conditions remains a major driver of "attractiveness of employment, performance and productivity, and retention of the health workforce." ' The Global Strategy on Human Resources in Healthcare identifies workplace violence as a threat to eradicate for the achievement of improved healthcare. One of its pillars is the notion that institutions must "uphold the personal, employment and professional rights of all health workers, including safe and decent working environments and freedom from all kinds of discrimination, coercion, and violence"⁶⁰.

Consequences of workplace violence against nurses

There is abundant evidence on the negative physical, mental, social, and professional effects of violence on nurses⁹. The consequences of workplace violence have also ramifications that span across several other dimensions including emotional, work functioning, relationship with patient and quality of care, social and financial burden for the healthcare organisations⁶¹.

'Studies in the healthcare sector have shown workplace violence to be associated with higher rates of anxiety.'

Violent incidents affect the personal health of nurses. Beyond the physical injuries, there are psychological consequences that have both mental and emotional implications which may result in long-term effects^{62,63}.

Numerous studies show a strong relationship between being subject to workplace violence and the risk of developing mental health problems^{64,65}. Studies in the healthcare sector have shown workplace violence to be associated with higher rates of anxiety⁶⁶, a higher likelihood of developing depressive symptoms^{67,68,69}, with evidence being consistent across countries very different from each other, such as Turkey⁷⁰, Kuwait⁷¹ and South Korea⁷². Incidence of workplace violence induces several other psychophysical responses on victims, such as increased sleeping disorders⁷³ increased frequency of medication intake²⁴, and even symptoms of post-traumatic stress disorder with long-lasting effects from six months up to four

years after exposure^{74,75,69}. The negative effects of workplace violence include reported signs of psychological depletion^{76,77}, a decrease in overall perceived quality of life⁷⁸ along with effects on a person's perception of themselves, such as lower self-esteem⁷⁹.

The incidences of violence impact not only nurses' work performance but also the organisation in general⁸⁰, decreasing perceived job satisfaction⁸¹, and actual productivity⁸², increasing the likelihood of burnout^{83,84,33} and impacting on job turnover, absenteeism, and job commitment^{85,86}.

The occurrence of workplace violence often derives from the workplace environment itself and the organisational structure surrounding the work of nurses. Negative social behaviours that affect the daily interactions of nurses with patients and colleagues can endanger the development and retention of motivated health professionals^{89,90}, can impose added organisational cost to institutions in mitigating the consequences of violence⁹¹ and can ultimately lower the quality of patient care, impacting on the opportunity of patients to receive adequate and affordable care^{92,93,94}.

'Negative social behaviours that affect the daily interactions of nurses with patients and colleagues can endanger the development and retention of motivated health professionals.'

Eurofound conducted a study on violence and harassment among the European workplace and clustered the main organisational risk factors and working conditions driving incidences into three groups. First, factors that increase job demands, such as high workload, staff shortages, unsocial hours, and demanding tasks. Second, factors associated with uncertainties, such as organisational changes. Third, social resources at the workplace, such as leadership, and relationships among employees⁹⁵. 'Poor interpersonal relationships combined with time pressures were associated with higher incidences of harassment by employers, colleagues, and patients.'

Several of these factors came into play with the emergency of the recent pandemic: inadequate staffing, heavy workload, and scarce resources^{96,24}. Other organisational factors involve management aspects such as shortage of training programs dealing with violence, lack of violence management protocols, and delays in response time¹⁰. A study conducted in eight European countries found that poor interpersonal relationships combined with time pressures were associated with higher incidences of harassment by employers, colleagues, and patients^{24,54}. Worsening of workplace conditions and incidence of workplace violence feed into each other, through both individual job stress and work environment characteristics, such as hospital policies and overall organisational culture^{97,98,99,100,101}

Recommendations

Workplace violence is an occupational problem that can be resolved through a set of interventions at different levels of resolution. Given the wide amount of literature suggesting different frameworks to classify the scope of interventions, EFN chose a binary perspective with which to view the set of potentially effective interventions. Policy options need to consider the complementary role of creating an enabling external environment (i.e., law enforcement, legislative changes, and organizational support/ resources) and aiming at promoting internal capacity within the profession (i.e., training, empowerment, voicing channels for nurses).

External environment

An effective way to conceive evidence-based interventions against workplace violence is through the lenses of three major dimensions: policy updates, procedural enhancements, and education¹⁰².

Policy updates are often the most effective, but also the slowest to implement. Legislative changes constitute the broader more encompassing dimension. Yet, legislative changes also depend on the maturity of each EU Member State's legal framework, as legislations proceed at different paces and with different scope. Furthermore, there is the added challenge of different sociocultural attitudes on what constitutes workplace violence and harassment, which is a major hindrance in the definition itself of what constitutes violence in the first place⁵⁰.

'EU national policy interventions could be classified according to different approaches to tackling workplace violence.'

Eurofound conducted a comprehensive study in 2015, mapping the level of development of different types of public preventive policies across the EU Member States⁹⁵, and found that EU national policy interventions could be classified according to different approaches to tackling workplace violence: recommendation to follow general prevention measures against psychosocial risk, promotion of non-binding measures to encourage employers' actions, and the imposition of actual legal obligations on the employer to intervene beyond the scope of risk preventions⁹⁵.

On top of this distinction, the study also identified five different national-level patterns of governance for prevention policies, ranging from decentralised activities to coordinated governmental initiatives with social partners. Given the fragmented landscape, there is clear evidence that national legislative changes can be better accelerated through stronger pressure from EU institutions in forcing the Member States to comply with an increasingly set of specific measures concerning workplace violence.

EU National Nurses Associations gathered at the April 2021 EFN General Assembly shared a set of best practices that can be best implemented at the sectoral level, with the participation of social partners and supported partially by governmental initiatives. 'Increased security fits with the broader scope of improving the organisational context of healthcare facilities.'

Some of the practices are preventive, aimed at creating an environment that reduces the chances for violence to occur, such as strengthening the link between hospitals and police in healthcare settings and improving security through better monitoring systems of emergency departments. For instance, in Spain, a mobile app called "Alert Cop" was introduced, which establishes a primary communication mechanism for healthcare professionals to alert security and police.

Increased security fits with the broader scope of improving the organisational context of healthcare facilities. Other similar changes include improvements in workplace and managerial procedures, such as restricting the number of relatives entering wards, improving the doctor– patient ratio, or introducing a method to 'flag' patients in electronic medical records to alert staff of potential risks^{102,103}.

There is evidence suggesting that multicomponent interventions can produce greater effects, such as introducing workplace violence reporting systems along with structured education programs^{104,105}.

Availability of funding and management of existing organisational resources both play a role in securing the workplace: the infrastructural design of emergency departments can influence the incidence of violence¹⁰⁶. The management of human resources is a powerful domain of intervention, at the cross-section between the external environment and internal capacity. Human resources practices can design and implement ways to encourage job autonomy for nurses and empower their role by including them in decision-making around their work environment^{107,108}.

Internal capacity

One of the most transformative tools for promoting internal capacity within the profession is enhancing educational opportunities for nurses and doctors, to both empower and instill awareness on best practice among healthcare professionals.

Structured education implies setting up training programmes that inform nurses on how to respond to workplace violence by patients and how to develop effective interpersonal skills in clinical settings, along with equipping supervisors with the leadership skills to be aware of workplace dynamics and provide the support that disrupts negative social behaviours^{103,105,109,110,111}.

Training has been proven one of the most effective tools to reduce violence incidence, suggesting that much of the workplace abuses are not only due to the physical vulnerability of female nurses but also to the way in which many nurses perceive their role and profession¹¹².

Apart from training, the public has a central role in the state of workplace violence as well: influencing public attitudes can significantly reduce incidences of violence^{113,114}. In general, the public expresses sympathy towards nurses subject to violence¹¹⁵.

'Training has been proven one of the most effective tools to reduce violence incidence. Influencing public attitudes can significantly reduce incidences of violence.'

Raising public awareness of the problem of workplace violence can help place the topic higher in the national agenda and advance strategies aimed at improving overall public perception of the nursing profession.

Conclusion

In the hospital environment, nurses are the first point of contact with the public and are also the primary caregivers of patients. The nature of nurses' work responsibilities places them at risk of physical violence and verbal abuse, to the extent that evidence has confirmed how nursing professionals have accepted violent attacks as an integral part of their job^{116,117}.

It is commonly known that violent incidences are more common in mental health and emergency

departments, as nurses have to confront a particular segment of patients that have severe conditions and often express unpredictable behaviours of aggression¹¹⁸. In these settings, violence may be seen as justified and nurses are expected to understand their abusive behaviour, forgive and not complain. However, violence against nurses is not limited to specific hospital departments.

Based on the numerous literature reviews of the past decades, many violent cases against nurses can be summarised as being: the consequence of organisational deficiencies which increases work pressure and predispose nurses to abuses by others in general^{119,120,121,25}; a manifestation of power abuses perpetrated by colleagues from higher ranks^{122,123}; or the expression of a general discrediting of the nursing profession combined with persistent discrimination against women in the workplace^{124,47,40}.

Workplace violence in healthcare is not a predictable reality of the job.'

The evidence suggests that in healthcare, workplace violence should not be a predictable reality of the job. Rather, it is an expression of a broader problem that is deeper, rooted in organisational inefficiency and the absence of appropriate legislation aimed at maintaining minimum standards of safe work environments.

What emerged from the testimonies of the Nurses Associations in the April 2021 EFN General Assembly is a lack of law enforcement, combined with incoherent EU-wide legislation targeting workplace violence in the healthcare profession. Healthcare professionals need: more institutional support through either dedicated funding aimed at targeted interventions; more legislative commitment to ratify policies against discrimination; and an opportunity to convey these messages to the appropriate policymakers.

Violence and harassment against nurses are not new and is totally unacceptable, as it has an enormous negative impact on nurses' psychological and physical well-being and on their job motivation, leads to nurses leaving the profession, and puts the quality of care and patients' safety at risk. Therefore, it is time to act. Nurses also need to be protected from any kinds of gender-related violence and discrimination.

It is crucial that both nurses and women, including nurse researchers, have a strong voice in the design of health and social policies. They are ideally positioned to both lead and support such developments. Policymakers and politicians have here a golden opportunity to ensure that the reform process addresses the challenges of the long-standing inequality between women and men, both as providers and as recipients of care.

It is time that the EU institutions, EU Member States, international organisations, civil society actors and activists, look at the achievements so far and discuss the steps forwards in strategic co-operation between EU institutions, Member States, international organisations, NGOs, and academics in combatting violence against women. It is imperative that nurses are protected and supported through the development of policies, initiatives, and legislation at national and European level.

Given the severity of the situation, inaction could lead to irreplicable damage to the nursing workforce, compounding pressures resulting from the COVID-19 pandemic. Ultimately, this situation can drive existing nurses out of the profession.

Acknowledgements

This briefing was developed with the leadership of Paul De Raeve, ENRF Secretary General and Francesco Bolzonella, M.PP, M.HRD from Maastricht University, School of Business and Economics.

This Policy Brief was developed based on the data collected from the EFN members at the EFN April 2021 General Assembly, who provided very important data that shows that violence against nurses has reached epidemic proportions, with anecdotal evidence during the COVID-19 pandemic pointing to a sharp increase across countries in Europe. Nurses take the brunt of the public's aggression, since they are frequently the first point of contact. Violence against nurses takes many forms, including death threats, punches, sexual harassment and verbal insults. Evidence on the frequency and impact of violence on nurses is accumulating, pointing to negative physical, mental, social and professional effects. We are extremely grateful for the EFN members data contribution to this Policy Brief.

Recommendations

What should policy makers do?

- 1. **Recognise the rising problem of violence**, harassment, and discrimination against nurses at EU level.
- 2. Make sure to implement policies and legislation that promote safety and the well-being of nurses.
- 3. Strengthen the framework and the working condition in the healthcare sector.
- 4. Engage with nurses and their representatives, through a tripartite social dialogue, at national and European level to plan the provision of adequate support for nurses against violence and harassment.
- 5. Promote the importance of safe and inclusive workplaces for all health care professionals by implementing preventive measures against violence and harassment at national, organisational and personal level.
- 6. Fund initiatives and projects aimed at National Nursing Associations and nursing researchers committed to tackling the violence problem in their countries focusing on political and legal solutions.

What should nurse leaders do?

- Make the reduction of violence and harassment against nurses a number one priority of the national, regional, local and EU political agendas.
- 2. Strengthen nursing curriculums to support and empower nurses to deal with diverse forms of violence and harassment.
- 3. **Promote the training of nurses and other healthcare professionals** on the risks of violence and harassment and how to prevent, identify and cope with it.
- 4. Existing legislation should be monitored for its implementation and successful enforcement.
- 5. **Clear messaging should be available** that encourages nurses to report violent incidents without fear of retaliation, humiliation or victimisation.
- 6. Make sure that all health professionals unite behind the common goal of reducing and preventing violence by supporting each other.

What should researchers do?

- 1. **Raise awareness on the need to stop violence**, harassment, and discrimination against nurses/women among Member States and EU citizens, based on concrete data.
- 2. Make sure that initiatives to support women and nurses are more closely aligned.
- 3. **Conduct scoping and systematic reviews on the impact of violence on nurses** and the solutions put in place.
- 4. **Develop a European framework to protect nurses against violence**, to be implemented during the seven-year EU budget 2021-2027.
- 5. Make sure that violence against nurses is part of the national research agenda.

References

- 1. Eurofound. (2022). European Working Conditions Survey [cited 2022 Febr 8]. www.eurofound.europa.eu/data/european-working-conditions-survey
- OSHA. (2015). Workplace Violence in Healthcare. Understanding the Challenge. Occupational Safety and Health Administration (OSHA).
- 3. Milczarek, M. (2010). *Workplace violence and harassment: A European picture*. European Agency for Safety and Health at Work. https://data.europa.eu/doi/10.2802/12198
- Smith-Pittman, M. H., & McKoy, Y. D. (1999). Workplace Violence in Healthcare Environments. *Nursing Forum*, 34(3), 5–13. https://doi.org/10.1111/j.1744-6198.1999.tb00988.x
- Acquadro Maran, D. (2020). Workplace violence: Prevalence, risk factors and preventive measures across the globe. *Journal of Health and Social Sciences*, 1, 13–22. https://doi. org/10.19204/2020/wrkp2
- 6. di Martino, V. (2003). *Workplace violence in the health sector*. ILO/ICN/WHO/PSI.
- Mento, C., Silvestri, M. C., Bruno, A., Muscatello, M. R. A., Cedro, C., Pandolfo, G., & Zoccali, R. A. (2020). Workplace violence against healthcare professionals: a systematic review. *Aggression and Violent Behavior*, 51, 101381. https://doi. org/10.1016/j.avb.2020.101381
- World Medical Association. (2020). 73rd World Health Assembly, Agenda Item 3: Covid-19 Pandemic Response. World Medical Association. Available online at: www.wma.net/ wp-content/uploads/2020/05/WHA73-WMA-statement-on-Covid-19- pandemic-response-.pdf
- European Federation of Nurses Associations (EFN). (2021). *Report on Gender and Profession-based Violence against Nurses*. European Federation of Nurses Associations. www.efn.eu/wpcontent/uploads/EFN-Report-on-gender-and-profession-basedviolence-against-nurses-September-2021.pdf
- Pourshaikhian, M., Abolghasem Gorji, H., Aryankhesal, A., Khorasani-Zavareh, D., & Barati, A. (2016). A Systematic Literature Review: Workplace Violence Against Emergency Medical Services Personnel. *Archives of Trauma Research*, Inpress(Inpress). https://doi.org/10.5812/atr.28734
- Havaei, F., & MacPhee, M. (2020). The impact of heavy nurse workload and patient/family complaints on workplace violence: an application of human factors framework. *Nursing Open*, 7(3), 731–741. https://doi.org/10.1002/nop2.444
- Alsharari, A. F., Abu-Snieneh, H. M., Abuadas, F. H., Elsabagh, N. E., Althobaity, A., Alshammari, F. F., Alshmemri, M. S., Aroury, A. M., Alkhadam, A. Q., & Alatawi, S. S. (2021). Workplace violence towards emergency nurses: a cross-sectional multicenter study. *Australasian Emergency Care*, S2588994X2100004X. https://doi. org/10.1016/j.auec.2021.01.004
- Hallett, N., Wagstaff, C., & Barlow, T. (2021). Nursing students' experiences of violence and aggression: a mixed-methods study. *Nurse Education Today*, 105, 105024. https://doi. org/10.1016/j.nedt.2021.105024
- Zhang, J., Zheng, J., Cai, Y., Zheng, K., & Liu, X. (2021). Nurses' experiences and support needs following workplace violence: a qualitative systematic review. *Journal of Clinical Nursing*, 30(1–2), 28–43. https://doi.org/10.1111/jocn.15492

- Konttila, J., Holopainen, A., Kyngäs, H., & Pesonen, H.-M. (2021). Background characteristics and exposure to violence predict well-being at work among psychiatric outpatient nurses. *Archives of Psychiatric Nursing*, 35(2), 223–231. https://doi. org/10.1016/j.apnu.2020.06.006
- Aljohani, B., Burkholder, J., Tran, Q. K., Chen, C., Beisenova, K., & Pourmand, A. (2021). Workplace violence in the emergency department: a systematic review and metaanalysis. *Public Health*, 196, 186–197. https://doi.org/10.1016/j. puhe.2021.02.009
- Nelson, R. (2014). Tackling violence against health-care workers. *The Lancet*, 383(9926), 1373–1374. https://doi.org/10.1016/ S0140-6736(14)60658-9
- Shoghi, M., Sanjari, M., Shirazi, F., Heidari, S., Salemi, S., & Mirzabeigi, G. (2008). Workplace Violence and Abuse Against Nurses in Hospitals in Iran. *Asian Nursing Research*, 2(3), 184–193. https://doi.org/10.1016/S1976-1317(08)60042-0
- AbuAlRub, R. F., & Al Khawaldeh, A. T. (2014). Workplace physical violence among hospital nurses and physicians in underserved areas in Jordan. *Journal of Clinical Nursing*, 23(13–14), 1937–1947.https://doi.org/10.1111/jocn.12473
- Kvas, A., & Seljak, J. (2014). Unreported workplace violence in nursing: unreported workplace violence in nursing. *International Nursing Review*, 61(3), 344–351. https://doi.org/10.1111/ inr.12106
- Babiarczyk, B., Turbiarz, A., Tomagová, M., Zeleníková, R., Önler, E., & Sancho Cantus, D. (2020). Reporting of workplace violence towards nurses in 5 European countries – a cross-sectional study. *International Journal of Occupational Medicine and Environmental Health*, 33(3), 325–338. https://doi.org/10.13075/ ijomeh.1896.01475
- Bitencourt, M. R., Alarcão, A. C. J., Silva, L. L., Dutra, A. de C., Caruzzo, N. M., Roszkowski, I., Bitencourt, M. R., Marques, V. D., Pelloso, S. M., & Carvalho, M. D. de B. (2021). Predictors of violence against health professionals during the COVID-19 pandemic in Brazil: a cross-sectional study. PLOS ONE, 16(6), e0253398. https://doi.org/10.1371/journal.pone.0253398
- Byon, H. D. (2021). Nurses' Experience With Type II Workplace Violence and Underreporting During the COVID-19 Pandemic. 9.
- Havaei, F., & MacPhee, M. (2021). Effect of Workplace Violence and Psychological Stress Responses on Medical-Surgical Nurses' Medication Intake. *Canadian Journal of Nursing Research*, 53(2), 134–144. https://doi.org/10.1177/0844562120903914
- Zhang, S., Wang, J., Liu, L., Meng, D., Wang, H., Zhao, X., Wang, X., Liu, B., Cao, D., & Sun, T. (2021). Does abusive supervision lead nurses to suffer from workplace violence? A cross-sectional study. *Journal of Nursing Management*, jonm.13326. https://doi. org/10.1111/jonm.13326
- Egues, A. L., & Leinung, E. Z. (2013). The Bully Within and Without: Strategies to Address Horizontal Violence in Nursing: Strategies to Combat Bullying. *Nursing Forum*, 48(3), 185–190. https://doi.org/10.1111/nuf.12028
- Nowrouzi-Kia, B., Isidro, R., Chai, E., Usuba, K., & Chen, A. (2019). Antecedent factors in different types of workplace violence against nurses: a systematic review. *Aggression and Violent Behavior*, 44, 1–7. https://doi.org/10.1016/j.avb.2018.11.002

- De Raeve, P., Adams, E., & Xyrichis, A. (2021). The impact of the COVID-19 pandemic on nurses in Europe: a critical discussion of policy failures and opportunities for future preparedness. *International Journal of Nursing Studies Advances*, 3, 100032. https://doi.org/10.1016/j.ijnsa.2021.100032
- 29. Panteli, D., & Maier, C. B. (2021). Regulating the health workforce in Europe: Implications of the COVID-19 pandemic. *Human Resources for Health*, 19(1), 80. https://doi.org/10.1186/ s12960-021-00624-w
- Morgan, R., Tan, H.-L., Oveisi, N., Memmott, C., Korzuchowski, A., Hawkins, K., & Smith, J. (2022). Women healthcare workers' experiences during COVID-19 and other crises: a scoping review. *International Journal of Nursing Studies Advances*, 4, 100066. https://doi.org/10.1016/j.ijnsa.2022.100066
- 31. WHO. (2020b). *State of the World's Nursing. 2020.* World Health Organization. Regional Office for Europe. https://apps.who.int/ iris/handle/10665/351507
- Schlick, C. J. R., Ellis, R. J., Etkin, C. D., Greenberg, C. C., Greenberg, J. A., Turner, P. L., Buyske, J., Hoyt, D. B., Nasca, T. J., Bilimoria, K. Y., & Hu, Y.-Y. (2021). Experiences of Gender Discrimination and Sexual Harassment Among Residents in General Surgery Programs Across the US. *JAMA Surgery*, 156(10), 942. https://doi.org/10.1001/jamasurg.2021.3195
- Liu, J., Gan, Y., Jiang, H., Li, L., Dwyer, R., Lu, K., Yan, S., Sampson, O., Xu, H., Wang, C., Zhu, Y., Chang, Y., Yang, Y., Yang, T., Chen, Y., Song, F., & Lu, Z. (2019). Prevalence of workplace violence against healthcare workers: a systematic review and metaanalysis. *Occupational and Environmental Medicine*, 76(12), 927–937. https://doi.org/10.1136/oemed-2019-105849
- Papantoniou, P. (2021). Sexual harassment and organisational silencing in nursing: a cross-sectional study in Greece. *BMJ Open*, 11(11), e050850. https://doi.org/10.1136/ bmjopen-2021-050850
- Zeighami, M., Mangolian Shahrbabaki, P., & Dehghan, M. (2022). Iranian Nurses' Experiences with Sexual Harassment in Workplace: a Qualitative Study. *Sexuality Research and Social Policy*. https://doi.org/10.1007/s13178-022-00688-w
- Ross, S. J., Polsky, D., & Sochalski, J. (2005). Nursing shortages and international nurse migration. *International Nursing Review*, 52(4), 253–262. https://doi.org/10.1111/j.1466-7657.2005.00430.x
- Marć, M., Bartosiewicz, A., Burzyńska, J., Chmiel, Z., & Januszewicz, P. (2019). A nursing shortage – A prospect of global and local policies. *International Nursing Review*, 66(1), 9–16. https://doi.org/10.1111/inr.12473
- Drennan, V. M., & Ross, F. (2019). Global nurse shortages The facts, the impact and action for change. *British Medical Bulletin*, 130(1), 25–37. https://doi.org/10.1093/bmb/ldz014
- Seago, J. A., Spetz, J., Alvarado, A., Keane, D., & Grumbach, K. (2006). The Nursing Shortage: Is It Really About Image?: *Journal of Healthcare Management*, 51(2), 96–108. https://doi. org/10.1097/00115514-200603000-00007
- 40. Rechel, B., Dubois, C.-A., & McKee, M. (Eds.). (2006). *The health care workforce in Europe: Learning from experience*. World Health Organization.
- Arafa, A., Shehata, A., Youssef, M., & Senosy, S. (2021). Violence against healthcare workers during the COVID-19 pandemic: A cross-sectional study from Egypt. Archives of Environmental & Occupational Health, 1–7. https://doi.org/10.1080/19338244.20 21.1982854

- 42. Özkan Şat, S., Akbaş, P., & Yaman Sözbir, Ş. (2021). Nurses' exposure to violence and their professional commitment during the COVIDE19 pandemic. *Journal of Clinical Nursing*, 30(13–14), 2036–2047. https://doi.org/10.1111/jocn.15760
- 43. Vartia-Väänänen, M. (2012). Workplace Bullying and Harassment in the EU and Finland. 22.
- EAVA. (2013). European added value assessment: Combatting violence against women: an assessment accompanying the European Parliament's legislative own initiative report. (Vol. 3/2013). European Parliament. Directorate General for Internal Policies of the Union. https://data.europa.eu/ doi/10.2861/20377
- 45. European Commission. (2020). *Union of Equality: Gender Equality Strategy 2020–2025*. European Commission.
- 46. Parent-Thirion, A. (2017). *6th European Working Conditions Survey: Overview report (2017 update)*. Publications Office of the European Union.
- 47. FRA. (2021). Crime, Safety and Victims' Rights Fundamental Rights Survey. Report of the European Union Agency for Fundamental Rights, 26.
- 48. Rosamund, S. (2021). Violence against women in the EU. European Parliamentary Research Service, *Briefing*, 12.
- Meurens, N., D'Souza, H., Mohamed, S., Chowdhury, N., & Charitakis, S. (2020). *Tackling violence against women and domestic violence in Europe*. 206.
- Karatuna, I., Jönsson, S., & Muhonen, T. (2020). Workplace bullying in the nursing profession: a cross-cultural scoping review. *International Journal of Nursing Studies*, 111, 103628. https://doi.org/10.1016/j.ijnurstu.2020.103628
- Cebrino, J., & Portero de la Cruz, S. (2020). A worldwide bibliometric analysis of published literature on workplace violence in healthcare personnel. *PLOS ONE*, 15(11), e0242781. https://doi.org/10.1371/journal.pone.0242781
- 52. Kane, L. (2014). US vs European physicians: Their ethical differences. Medscape. Available: www.medscape.com/features/ slideshow/us-european-ethics
- 53. European Commission. (2021). *Methodological manual for the EU survey on gender-based violence against women and other forms of inter-personal violence (EU-GBV): 2021 edition*. European Commission. Statistical Office of the European Union. https://data.europa.eu/doi/10.2785/25571
- Camerino, D., Estryn-Behar, M., Conway, P. M., van Der Heijden, B. I. J. M., & Hasselhorn, H.-M. (2008). Work-related factors and violence among nursing staff in the European NEXT study: A longitudinal cohort study. *International Journal* of Nursing Studies, 45(1), 35–50. https://doi.org/10.1016/j. ijnurstu.2007.01.013
- Arah, O. A., Westert, G. P., Hurst, J., & Klazinga, N. S. (2006). A conceptual framework for the OECD Health Care Quality Indicators Project. *International Journal for Quality in Health Care*, 18(suppl_1), 5–13. https://doi.org/10.1093/intqhc/mzl024
- European Commission. (2010). EU Actions on Patient Safety and Quality of Healthcare. European Commission, Healthcare Systems Unit. European Commission, Healthcare Systems Unit.
- 57. WHO. (2018). Handbook for national quality policy and strategy: a practical approach for developing policy and strategy to improve quality of care. World Health Organization. https://apps.who.int/ iris/handle/10665/272357

- Busse, R., Klazinga, N., Panteli, D., & Wilm Quentin. (2019). Improving Healthcare Quality in Europe: Characteristics, Effectiveness and Implementation of Different Strategies. OECD. https://doi.org/10.1787/b11a6e8f-en
- 59. WHO. (2020a). European strategic directions for strengthening nursing and midwifery towards Health 2020 goals. World Health Organization (WHO), 35.
- 60. WHO. (2016). *Global strategy on human resources for health: Workforce 2030*. World Health Organization.
- Lanctôt, N., & Guay, S. (2014). The aftermath of workplace violence among healthcare workers: a systematic literature review of the consequences. *Aggression and Violent Behavior*, 19(5), 492–501. https://doi.org/10.1016/j.avb.2014.07.010
- 62. Konttila, J., Pesonen, H.-M., & Kyngäs, H. (2018). Violence committed against nursing staff by patients in psychiatric outpatient settings. *International Journal of Mental Health Nursing*, 27(6), 1592–1605. https://doi.org/10.1111/inm.12478
- Najafi, F., Fallahi-Khoshknab, M., Ahmadi, F., Dalvandi, A., & Rahgozar, M. (2018). Antecedents and consequences of workplace violence against nurses: A qualitative study. *Journal* of Clinical Nursing, 27(1–2), e116–e128. https://doi.org/10.1111/ jocn.13884
- 64. Dadfar, M., & Lester, D. (2021). Workplace violence (WPV) in healthcare systems. *Nursing Open*, 8(2), 527–528. https://doi. org/10.1002/nop2.713
- Nyberg, A., Kecklund, G., Hanson, L. M., & Rajaleid, K. (2021). Workplace violence and health in human service industries: A systematic review of prospective and longitudinal studies. Occupational and Environmental Medicine, 78(2), 69–81. https:// doi.org/10.1136/oemed-2020-106450
- Zhao, S., Shi, Y., Sun, Z., Xie, F., Wang, J., Zhang, S., Gou, T., Han, X., Sun, T., & Fan, L. (2018). Impact of workplace violence against nurses' thriving at work, job satisfaction and turnover intention: a crosslsectional study. *Journal of Clinical Nursing*, 27(13–14), 2620–2632. https://doi.org/10.1111/jocn.14311
- Theorell, T., Hammarström, A., Aronsson, G., Träskman Bendz, L., Grape, T., Hogstedt, C., Marteinsdottir, I., Skoog, I., & Hall, C. (2015). A systematic review including meta-analysis of work environment and depressive symptoms. *BMC Public Health*, 15(1), 738. https://doi.org/10.1186/s12889-015-1954-4
- Fang, H., Zhao, X., Yang, H., Sun, P., Li, Y., Jiang, K., Li, P., Jiao, M., Liu, M., Qiao, H., & Wu, Q. (2018). Depressive symptoms and workplace-violence-related risk factors among otorhinolaryngology nurses and physicians in Northern China: A cross-sectional study. *BMJ Open*, 8(1), e019514. https://doi. org/10.1136/bmjopen-2017-019514
- Andersen, L. P., Hogh, A., Elklit, A., Andersen, J. H., & Biering, K. (2019). Work-related threats and violence and post-traumatic symptoms in four high-risk occupations: Short-and longterm symptoms. *International Archives of Occupational and Environmental Health*, 92(2), 195–208.
- Ünsal Atan, Ş., Baysan Arabaci, L., Sirin, A., Isler, A., Donmez, S., Unsal Guler, M., Oflaz, U., Yalcinkaya Ozdemir, G., & Yazar Tasbasi, F. (2013). Violence experienced by nurses at six university hospitals in Turkey: Violence experienced by nurses. *Journal of Psychiatric and Mental Health Nursing*, 20(10), 882–889. https://doi.org/10.1111/jpm.12027
- Al-Sahlawi, K., Atawneh, F., Zahid, M., Shahid, A., & Al-Farrah, M. (2003). Violence against nurses in hospitals: Prevalence and effects. *British Journal of Nursing*, 12(2), 102–107. https://doi. org/10.12968/bjon.2003.12.2.11049

- 72. Jung, Mi Sook, Kim, Hyun-Li, & Lee, Yoonjeong. (2017). Factors Influencing Work-life Balance in Korean Registered Nurses. *Korean Journal of Occupational Health Nursing*, 26(2), 114–123. https://doi.org/10.5807/KJOHN.2017.26.2.114
- Sun, T., Gao, L., Li, F., Shi, Y., Xie, F., Wang, J., Wang, S., Zhang, S., Liu, W., Duan, X., Liu, X., Zhang, Z., Li, L., & Fan, L. (2017). Workplace violence, psychological stress, sleep quality and subjective health in Chinese doctors: A large cross-sectional study. *BMJ Open*, 7(12), e017182. https://doi.org/10.1136/ bmjopen-2017-017182
- 74. d'Ettorre, G., & Pellicani, V. (2017). Workplace Violence Toward Mental Healthcare Workers Employed in Psychiatric Wards. *Safety and Health at Work*, 8(4), 337–342. https://doi. org/10.1016/j.shaw.2017.01.004
- Hilton, N. Z., Addison, S., Ham, E., Rodrigues, N., & Seto, M. C. (2021). Workplace violence and risk factors for PTSD among psychiatric nurses: Systematic review and directions for future research and practice. *Journal of Psychiatric and Mental Health Nursing*, jpm.12781. https://doi.org/10.1111/jpm.12781
- Baumeister, R. F. (2003). Ego Depletion and Self-Regulation Failure: A Resource Model of Self-Control: Alcoholism. *Clinical & Experimental Research*, 27(2), 281–284. https://doi. org/10.1097/01.ALC.0000060879.61384.A4
- 77. Shi, L., Li, G., Hao, J., Wang, W., Chen, W., Liu, S., Yu, Z., Shi, Y., Ma, Y., Fan, L., Zhang, L., & Han, X. (2020). Psychological depletion in physicians and nurses exposed to workplace violence: A cross-sectional study using propensity score analysis. *International Journal of Nursing Studies*, 103, 103493. https://doi.org/10.1016/j.ijnurstu.2019.103493
- Itzhaki, M., Bluvstein, I., Peles Bortz, A., Kostistky, H., Bar Noy, D., Filshtinsky, V., & Theilla, M. (2018). Mental Health Nurse's Exposure to Workplace Violence Leads to Job Stress, Which Leads to Reduced Professional Quality of Life. *Frontiers in Psychiatry*, 9, 59. https://doi.org/10.3389/fpsyt.2018.00059
- Cordenuzzi, O., de Lima, S., Prestes, F., Beck, C., Silva, R., & Dal Pai, D. (2017). Strategies used by nursing staff in situations of workplace violence in a haemodialysis unit. *Revista Gaucha de Enfermagem*, 38(2), 8.
- Magnavita, N., Heponiemi, T., & Chirico, F. (2020). Workplace Violence Is Associated With Impaired Work Functioning in Nurses: An Italian Cross^{II}Sectional Study. *Journal of Nursing Scholarship*, 52(3), 281–291. https://doi.org/10.1111/jnu.12549
- Roche, M., Diers, D., Duffield, C., & Catling-Paull, C. (2010). Violence Toward Nurses, the Work Environment, and Patient Outcomes. *Journal of Nursing Scholarship*, 42(1), 13–22. https:// doi.org/10.1111/j.1547-5069.2009.01321.x
- Yang, L.-Q., Spector, P. E., Chang, C.-H. (Daisy), Gallant-Roman, M., & Powell, J. (2012). Psychosocial precursors and physical consequences of workplace violence towards nurses: A longitudinal examination with naturally occurring groups in hospital settings. *International Journal of Nursing Studies*, 49(9), 1091–1102. https://doi.org/10.1016/j.ijnurstu.2012.03.006
- Bernaldo-De-Quirós, M., Piccini, A. T., Gómez, M. M., & Cerdeira, J. C. (2015). Psychological consequences of aggression in prehospital emergency care: Cross sectional survey. *International Journal of Nursing Studies*, 52(1), 260–270. https://doi. org/10.1016/j.ijnurstu.2014.05.011
- Converso, D., Sottimano, I., & Balducci, C. (2021). Violence exposure and burnout in healthcare sector: Mediating role of work ability. *La Medicina Del Lavoro: Work, Environment and Health*, 112(1), 58–67. https://doi.org/10.23749/mdl. v112i1.9906

- Heckemann, B., Zeller, A., Hahn, S., Dassen, T., Schols, J. M. G. A., & Halfens, R. J. G. (2015). The effect of aggression management training programmes for nursing staff and students working in an acute hospital setting. A narrative review of current literature. *Nurse Education Today*, 35(1), 212–219. https://doi. org/10.1016/j.nedt.2014.08.003
- Choi, S.-H., & Lee, H. (2017). Workplace violence against nurses in Korea and its impact on professional quality of life and turnover intention. *Journal of Nursing Management*, 25(7), 508–518. https://doi.org/10.1111/jonm.12488
- Needleman, J., Buerhaus, P., Mattke, S., Stewart, M., & Zelevinsky, K. (2002). Nurse-Staffing Levels and the Quality of Care in Hospitals. *New England Journal of Medicine*, 346(22), 1715–1722. https://doi.org/10.1056/NEJMsa012247
- Aiken, L. H., Sloane, D. M., Bruyneel, L., Van den Heede, K., Griffiths, P., Busse, R., Diomidous, M., Kinnunen, J., Kózka, M., Lesaffre, E., McHugh, M. D., Moreno-Casbas, M. T., Rafferty, A. M., Schwendimann, R., Scott, P. A., Tishelman, C., van Achterberg, T., & Sermeus, W. (2014). Nurse staffing and education and hospital mortality in nine European countries: a retrospective observational study. *The Lancet*, 383(9931), 1824–1830. https://doi.org/10.1016/S0140-6736(13)62631-8
- Laeeque, S. H., Bilal, A., Babar, S., Khan, Z., & Ul Rahman, S. (2018). How Patient-Perpetrated Workplace Violence Leads to Turnover Intention Among Nurses: the Mediating Mechanism of Occupational Stress and Burnout. *Journal of Aggression, Maltreatment & Trauma*, 27(1), 96–118. https://doi.org/10.1080/ 10926771.2017.1410751
- Spence Laschinger, H. K., Wong, C. A., & Grau, A. L. (2012). The influence of authentic leadership on newly graduated nurses' experiences of workplace bullying, burnout and retention outcomes: a cross-sectional study. *International Journal of Nursing Studies*, 49(10), 1266–1276. https://doi.org/10.1016/j. ijnurstu.2012.05.012
- Speroni, K. G., Fitch, T., Dawson, E., Dugan, L., & Atherton, M. (2014). Incidence and Cost of Nurse Workplace Violence Perpetrated by Hospital Patients or Patient Visitors. *Journal of Emergency Nursing*, 40(3), 218–228. https://doi.org/10.1016/j. jen.2013.05.014
- 92. Woelfle, C. Y., & McCaffrey, R. (2007). Nurse on nurse. *Nursing Forum*, 42(3), 123–131.
- Jakobsson, J., Axelsson, M., & Örmon, K. (2020). The Face of Workplace Violence: Experiences of Healthcare Professionals in Surgical Hospital Wards. *Nursing Research and Practice*, 2020, 1–10. https://doi.org/10.1155/2020/1854387
- 94. Hill, A. (2014). Lateral Violence Experienced by Nurses in the Workplace. Garnder-Webb University, 73.
- 95. Giaccone, M., Di Nunzio, D., & Vargas, O. (2015). *Violence and harassment in European workplaces: Causes, impacts and policies*. Eurofound.
- Havaei, F., MacPhee, M., & Lee, S. E. (2019). The effect of violence prevention strategies on perceptions of workplace safety: a study of medical Dsurgical and mental health nurses. *Journal of Advanced Nursing*, jan.13950. https://doi.org/10.1111/ jan.13950
- Winstanley, S., & Whittington, R. (2004). Aggressive encounters between patients and general hospital staff: staff perceptions of the context and assailants' levels of cognitive processing. *Aggressive Behavior*, 30(6), 534–543. https://doi.org/10.1002/ ab.20052

- Howerton, R. J., & Mentes, J. C. (2010). Violence Against Women: The Phenomenon of Workplace Violence Against Nurses. *Issues in Mental Health Nursing*, 31(2), 89–95. https://doi. org/10.3109/01612840903267638
- Hahn, S., Mller, M., Hantikainen, V., Kok, G., Dassen, T., & Halfens, R. J. G. (2013). Risk factors associated with patient and visitor violence in general hospitals: results of a multiple regression analysis. *International Journal of Nursing Studies*, 50(3), 374–385. https://doi.org/10.1016/j.ijnurstu.2012.09.018
- Escribano, R. B., Beneit, J., & Luis Garcia, J. (2019). Violence in the workplace: some critical issues looking at the health sector. *Heliyon*, 5(3), e01283. https://doi.org/10.1016/j.heliyon.2019. e01283
- Magnavita, N., Di Stasio, E., Capitanelli, I., Lops, E. A., Chirico, F., & Garbarino, S. (2019). Sleep Problems and Workplace Violence: A Systematic Review and Meta-Analysis. *Frontiers in Neuroscience*, 13, 997. https://doi.org/10.3389/fnins.2019.00997
- 102. Adams, G. L. (2018). Evidence-based Interventions to Address Workplace Violence in the Emergency Department. Gardner-Webb University Hunt School of Nursing, In partial fulfillment of the requirements for the degree of Doctorate of Nursing Practice, 85.
- Kumari, A., Kaur, T., Ranjan, P., Chopra, S., Sarkar, S., & Baitha, U. (2020). Workplace violence against doctors: Characteristics, risk factors, and mitigation strategies. *Journal of Postgraduate Medicine*, 66(3), 149.
- 104. Somani, R., Muntaner, C., Hillan, E., Velonis, A. J., & Smith, P. (2021). A Systematic Review: Effectiveness of Interventions to De-escalate Workplace Violence against Nurses in Healthcare Settings. *Safety and Health at Work*, 12(3), 289–295. https://doi. org/10.1016/j.shaw.2021.04.004
- 105. Bordignon, M., & Monteiro, M. I. (2021). Analysis of workplace violence against nursing professionals and possibilities for prevention. *Revista Gaúcha de Enfermagem*, 42, e20190406. https://doi.org/10.1590/1983-1447.2021.20190406
- 106. Lenaghan, P. A., Cirrincione, N. M., & Henrich, S. (2018). Preventing Emergency Department Violence through Design. *Journal of Emergency Nursing*, 44(1), 7–12. https://doi. org/10.1016/j.jen.2017.06.012
- 107. ParionallCabrera, P., Cavanagh, J., & Bartram, T. (2020). Workplace violence against nurses in health care and the role of human resource management: a systematic review of the literature. *Journal of Advanced Nursing*, 76(7), 1581–1593. https://doi.org/10.1111/jan.14352
- 108. Rajabi, F., Jahangiri, M., Bagherifard, F., Banaee, S., & Farhadi, P. (2020). Strategies for controlling violence against health care workers: application of fuzzy analytical hierarchy process and fuzzy additive ratio assessment. *Journal of Nursing Management*, 28(4), 777–786. https://doi.org/10.1111/jonm.12989
- 109. Naveen Kumar, P., Betadur, D., & Chandermani. (2020). Study on mitigation of workplace violence in hospitals. *Medical Journal Armed Forces India*, 76(3), 298–302. https://doi.org/10.1016/j. mjafi.2019.09.003
- 110. Shier, M. L., Turpin, A., Nicholas, D., & Graham, J. R. (2021). Supervisor–Worker Relationship Dynamics for Workplace Violence Prevention in Public Sector Human Service Organizations. *Human Service Organizations: Management, Leadership & Governance*, 45(2), 109–124. https://doi.org/10.108 0/23303131.2021.1891169

- 111. Janzen, S., Arnetz, J., Radcliffe, S., Fitzpatrick, L., Eden, J., & Wright, M. C. (2022). Preventing patient violence in hospitals: Applying critical decision method interviews to understand how skilled staff think and act differently. *Applied Nursing Research*, 63, 151544. https://doi.org/10.1016/j.apnr.2021.151544
- 112. Vijayalakshmi, P., Gandhi, S., Nikhil Reddy, S. S., Palaniappan, M., & BadaMath, S. (2021). Empowerment of nurses' knowledge and skills on violence against women with mental illness: A randomized controlled trail. *Archives of Psychiatric Nursing*, 35(3), 261–266. https://doi.org/10.1016/j.apnu.2021.03.005
- 113. Lian, Y., & Dong, X. (2021). Exploring social media usage in improving public perception on workplace violence against healthcare workers. *Technology in Society*, 65, 101559. https:// doi.org/10.1016/j.techsoc.2021.101559
- 114. Warshawski, S., Amit Aharon, A., & Itzhaki, M. (2021). It Takes Two to Tango: Public Attitudes Toward Prevention of Workplace Violence Against Health Care Staff: A Mixed-Methods Study. *Journal of Interpersonal Violence*, 36(15–16), NP8724–NP8746. https://doi.org/10.1177/0886260519846865
- 115. Tung, L. T., Anh, T. T., Chinh, N. T. M., & Long, N. H. (2021). Public Reactions in Online Newspapers to Workplace Violence Against Nurses. SAGE Open Nursing, 7, 237796082110038. https://doi. org/10.1177/23779608211003819
- 116. Koritsas, S., Coles, J., Boyle, M., & Stanley, J. (2007). GPs, violence and work performance – 'just part of the job? *Australian Family Physician*, 36(3).
- 117. Dafny, H. A., & Beccaria, G. (2020). I do not even tell my partner: Nurses' perceptions of verbal and physical violence against nurses working in a regional hospital. *Journal of Clinical Nursing*, 29(17–18), 3336–3348. https://doi.org/10.1111/jocn.15362
- 118. Caruso, R., Antenora, F., Riba, M., Belvederi Murri, M., Biancosino, B., Zerbinati, L., & Grassi, L. (2021). Aggressive Behavior and Psychiatric Inpatients: A Narrative Review of the Literature with a Focus on the European Experience. *Current Psychiatry Reports*, 23(5), 29. https://doi.org/10.1007/s11920-021-01233-z

- 119. Arnetz, J., Hamblin, L. E., Sudan, S., & Arnetz, B. (2018). Organizational Determinants of Workplace Violence Against Hospital Workers. *Journal of Occupational & Environmental Medicine*, 60(8), 693–699. https://doi.org/10.1097/ JOM.00000000001345
- 120. Gümüşsoy, S., Dönmez, S., Ekşi, A., & Dal, N. A. (2021). Relationship of knowledge about and attitudes towards violence with recognition of violence against women among health staff in pre-hospital emergency medical services. *International Emergency Nursing*, 56, 100975. https://doi. org/10.1016/j.ienj.2021.100975
- 121. Khan, M. N., Awan, B., Khan, M., Mehboob, U., Haq, Z. U., Zohaib, M., Baddia, F., Khan, S., & Polkowski, M. (2021). Perceptions and Experiences of Health-care Personnel Regarding Violence Against Health Care: A Qualitative Multiple Case Study [Preprint]. *In Review*. https://doi.org/10.21203/ rs.3.rs-273638/v1
- 122. Beale, D., & Hoel, H. (2011). Workplace bullying and the employment relationship: Exploring questions of prevention, control and context. *Work, Employment and Society*, 25(1), 5–18. https://doi.org/10.1177/0950017010389228
- 123. Giménez Lozano, J. M., Martínez Ramón, J. P., & Morales Rodríguez, F. M. (2021). Doctors and Nurses: A Systematic Review of the Risk and Protective Factors in Workplace Violence and Burnout. *International Journal of Environmental Research and Public Health*, 18(6), 3280. https://doi.org/10.3390/ ijerph18063280
- 124. Petrogloou, P. (2019). Sexual harassment and harassment related to sex at work: Time for a new directive building on the EU gender equality acquis. *European Equality Law Review*. available at: www.equalitylaw.eu/downloads/5005-europeanequality-law-review-2-2019-pdf-3-201-kb

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