

Occupational Safety Regulations and Compliance: Literary Review of the Importance of Risk Prevention in Health Institutions

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Abstract. - *The importance of occupational health and safety in healthcare institutions contributes to improving service quality, reducing operational costs, and strengthening the reputation of these institutions. To analyze the existing literature on occupational health and safety in Ecuadorian hospitals, aiming to identify key concepts, emerging trends, and areas for improvement in this critical field for the well-being of healthcare workers. The study was based on a literature review to analyze occupational health and safety in Ecuadorian hospitals, gathering information from sources such as PubMed, Scopus, Web of Science, SciELO. Topics related to occupational health and risk prevention were selected, applying methods of induction, deduction, and analysis. The literature review reveals that risk prevention in healthcare institutions is complex and multifaceted, combining the importance of strict protocols, the relationship between workplace safety and quality of care, and operational efficiency. The literature review has identified complementary approaches to risk prevention in healthcare institutions, highlighting the importance of integrating these perspectives to develop a more effective management strategy. Comparative analysis has been key in adapting best practices in Ecuador, evaluating critical literature to propose recommendations that improve occupational health.*

Keywords. - *Regulation, Standards, Occupational Safety, Risks, Health.*

I. INTRODUCTION

This article aims to analyze occupational safety and health in healthcare institutions, with a particular focus on the regulations and compliance that underpin risk prevention. The objective of occupational risk management is to identify these hazards, assess their severity and probability of occurrence, and establish prevention and control measures to minimize the possibility of worker harm.

Occupational health is related to various factors, which has led to distinctive characteristics in the development of these programs in Latin America, compared to industrialized countries [1]. In Ecuador, the healthcare system is classified into the Public Sector, Private Sector, Autonomous Sector, and Community Sector. Together, these sectors seek to improve the

health and quality of life of the Ecuadorian population, ensuring broad, equitable, and accessible coverage for all citizens [2].

Risk prevention in healthcare institutions is fundamental to guaranteeing the safety and well-being of both patients and staff. Implementing preventive measures helps minimize exposure to various risks that can lead to occupational illnesses or injuries [3]. A safe work environment reduces stress and burnout among staff, contributing to the overall well-being of workers and improving the quality of service provided to patients [4]. In this regard, research in the Ecuadorian hospital setting highlights that, although fully established clinical cases of burnout are not always identified, the presence of signs of emotional exhaustion and low personal accomplishment indicates the need to strengthen preventative models. Early identification of these environmental and personal factors is crucial to preventing the deterioration of the mental health of surgical staff and ensuring the operational sustainability of institutions within the current regulatory framework [5].

Furthermore, risk prevention ensures compliance with established health regulations and standards. Meeting these requirements not only avoids legal penalties and fines but also reinforces the institution's social responsibility and professional ethics [6]. A proactive approach to occupational safety and health reflects a serious commitment to protecting all stakeholders, increasing patient confidence and strengthening the institution's reputation [7].

Finally, implementing prevention strategies contributes to operational efficiency by reducing costs associated with workplace accidents and illnesses, such as medical expenses and lost productivity. A well-managed and safe environment optimizes human and material resources, improves emergency response, and helps build a positive image of the institution, attracting both patients and healthcare professionals [8].

In this study, the main objective is to analyze the existing literature on occupational safety and health in Ecuadorian

hospitals, to identify key concepts, emerging trends, and areas for improvement in this critical area for the well-being of healthcare workers.

II. LITERATURE REVIEW

A. Regulations

Regulations are rules or guidelines established by government authorities or regulatory bodies to control and direct activities within a specific industry or sector [9]. These rules aim to ensure safety, health, well-being, and fairness in the workplace. In the context of occupational safety, regulations focus on preventing workplace accidents and illnesses through the implementation of specific standards and procedures [10].

B. Characteristics of the Regulations

Legal and Mandatory: These have the force of law and must be complied with by organizations and individuals.

- **Established by Competent Authorities:** Generally promulgated by government entities, such as ministries of labor, health, or environment, and international organizations such as the International Labour Organization.
- **Focused on Prevention:** These aim to prevent risks and protect workers through specific standards regarding equipment, procedures, and working conditions [11].

C. Regulatory Compliance in Occupational Safety

Regulatory compliance in occupational safety is crucial to ensuring that healthcare institutions provide a safe environment for their workers and patients. This compliance involves adhering to a series of laws, regulations, and standards established by government agencies and regulatory bodies [12]. These standards are designed to identify, assess, and control workplace hazards, ensuring that the necessary measures are taken to prevent accidents and illnesses. The proper implementation of these regulations protects the health of employees and improves the quality of patient care [13].

Furthermore, regulatory compliance helps institutions avoid legal penalties and fines that can arise from non-adherence to regulations. Healthcare institutions must maintain constant vigilance regarding current regulations and ensure that their practices and procedures are aligned with legal requirements [14]. Non-compliance can have consequences such as the interruption of operations, loss of license, and damage to the institution's reputation [15].

Adhering to regulatory standards also contributes to creating a safety culture within the institution. Promoting an environment where compliance is valued and best practices are recognized fosters shared responsibility and commitment to safety [16].

D. Occupational Safety

Occupational safety, also known as workplace safety and health, is a discipline focused on promoting and maintaining the highest degree of physical, mental, and social well-being of workers in all occupations. Its main objective is to prevent workplace accidents and illnesses, as well as to protect workers from the risks associated with their work environments [17].

Furthermore, it is essential to ensure that employees can work in a safe and healthy environment. In addition to preventing accidents and illnesses, good occupational safety management can increase productivity and employee morale, reduce absenteeism and staff turnover, and decrease costs related to workplace accidents and illnesses [18].

E. Health

Health is a state of complete physical, mental, and social well-being, and not merely the absence of disease or infirmity, according to the definition of the World Health Organization (WHO) [19]. This comprehensive approach to health highlights the importance of factors such as the ability to manage stress, maintain healthy relationships, and enjoy life, in addition to having a body free from disease and medical conditions [20].

F. The objective of reducing risks

Currently, to reduce risks in healthcare institutions, preventive measures are implemented that are closely related to the configuration of the work environment and seek to mitigate natural conditions that can cause both minor and serious harm to those working under these conditions. The main purpose of occupational risk prevention measures in healthcare institutions is to establish safe work practices in the workplace [21].

G. Health Protection and Patient Safety in Healthcare Institutions

Injury and Illness Prevention: Reducing risks minimizes the likelihood of injuries and illnesses among healthcare staff and patients. This includes preventing workplace accidents, infections, and medical errors that can have serious health consequences.

- **Safe Environment:** A safe work environment ensures that healthcare professionals can perform their duties without being exposed to unnecessary hazards, which also positively impacts the quality of care provided to patients.

H. Workers' health and safety regulations

According to the Internal Regulations for Occupational Safety and Health in Ecuador, several objectives are established to guarantee a safe and healthy work environment. The regulations emphasize compliance with laws regarding the prevention of occupational risks and underscore the importance of defining workers' responsibilities and rights in relation to occupational safety [22].

Furthermore, the regulations promote the implementation of preventive and protective measures to avoid accidents and illnesses, as well as the continuous improvement of processes and working conditions. They also highlight the need to create a culture of prevention among all workers, both internal and external, through training and the ongoing dissemination of occupational health policies [23].

Every workplace must organize an Occupational Safety and Health Committee. The committee's responsibilities will include promoting compliance with regulations related to occupational risk prevention, analyzing and issuing opinions on the company's safety and hygiene regulations, conducting general inspections of buildings, facilities, and equipment, and reviewing the results of investigations into workplace accidents and occupational diseases [24].

The Ministry is promoting the dissemination of the system developed during the Healthy Hospitals Project. The benefits will initially be applied to healthcare facilities in major cities and will later be extended to all public health centers nationwide. In the medium and long term, these standards will be applied to all healthcare facilities, both public and private.

I. Importance of Risk Prevention in Healthcare Institutions

Risk prevention in healthcare institutions is of paramount importance to ensure the safety of both workers and patients. In an environment where diverse risk factors are managed, from biological to ergonomic, implementing preventive measures is essential to avoid workplace accidents and the spread of diseases [25].

Furthermore, it is crucial for complying with legal regulations and standards established by health and labor authorities. A preventive approach reduces the likelihood of penalties and ensures that the institution operates within the legal framework, thus strengthening its reputation and credibility in the sector. Non-compliance not only exposes the institution to fines but also jeopardizes the health and safety of everyone involved.

Finally, a strong risk prevention culture contributes to the institution's operational efficiency. By minimizing safety-related incidents, costs associated with worker healthcare, service interruptions, and lost productivity are reduced. A safe and well-managed work environment promotes staff motivation and commitment, which translates into better service and more positive outcomes for patients.

III. METHODOLOGY

The research was conducted using a literature review approach, which allows for the identification, collection, evaluation, and synthesis of information from various secondary sources, such as books, scientific articles, reports,

theses, and other relevant documents. For the study's structure, a systematic review was carried out using the PRISMA method, a guide designed to improve the transparency and quality of systematic review and meta-analysis reports [26]. The information search was conducted in the electronic databases PubMed, Scopus, Web of Science, and SciELO, using keywords related to the research topic.

A. Inclusion criteria:

- Original articles published in English or Spanish.
- Data collection must have taken place in the context of occupational safety and risk prevention in healthcare institutions.
- Articles related to the following topics: level of regulatory compliance, impact of regulations on occupational safety, and workers' perceptions of the effectiveness of safety regulations.

B. Exclusion criteria:

- Studies of low scientific quality.
- Articles that did not address the research objective and were unrelated to the topic.
- Data unrelated to occupational safety in healthcare institutions or where the application of regulations was unclear or not explicit.

The following (see Table I) summarizes the key elements and descriptions of the topics related to the methodology used in the study on regulatory compliance in occupational safety within healthcare institutions.

TABLE I
ELEMENTS AND DESCRIPTIONS OF THE
METHODOLOGY THEMES

Element	Description
Population	Healthcare institutions and healthcare workers
Intervention	Evaluation of regulatory compliance in occupational safety
Comparison	Identify deficient practices and areas for improvement in regulatory compliance
Outcome	Level of compliance with occupational safety standards; number of incidents related to work-related risks; differences in compliance among different types of healthcare institutions.
Research Question	What is the role of regulatory compliance in occupational safety in risk prevention in healthcare institutions?

In this case, (See Table II) the key terms used in the study on regulatory compliance in occupational safety in health institutions are defined.

TABLE II
TERMS USED FOR SEARCHING SCIENTIFIC ARTICLES.

Terms used	
Occupational Safety	Workplace safety, occupational safety, or workplace risk prevention.
Regulatory Compliance	Compliance with regulations or implementation of regulations.
Regulations	Regulations, standards, safety policies, or safety rules.
Healthcare Institutions	Healthcare institutions, health centers, hospitals or clinics.

TABLE III
DATABASES OBTAINED FROM THE SEARCH ENGINE FOR SEARCH STRATEGIES AND RESULTS

Database	Search Strategy	Results
PubMed	((Occupational safety regulations [Title/Abstract] OR Regulatory compliance in health [Title/Abstract] OR Risk prevention [Title/Abstract]) AND (Importance in prevention OR Safety standards OR Risk management	155
Scopus	(TITLE-ABS-KEY (occupational safety regulations OR regulatory compliance in health OR risk prevention OR importance in prevention OR safety standards OR risk management) AND TITLE-ABS-KEY (healthcare institutions OR hospitals OR clinics))	135
Web of Science	TOPIC: (occupational safety regulations OR regulatory compliance in health OR risk prevention OR importance in prevention OR safety standards OR risk management) AND TOPIC: (healthcare institutions OR hospitals OR clinics)	290
SciELO	(Occupational safety regulations OR Regulatory compliance in health OR Risk prevention)	80

The relevance of studying this topic today is evident, given that the dynamics of labor and social relations have evolved significantly in recent years. This change has generated a pressing need to update and adapt to occupational safety and health policies and practices to ensure adequate protection for workers in an environment as complex and demanding as the hospital setting.

To conduct the search, reliable databases and sources were selected, including Scopus, PubMed, Web of Science, and SciELO (See Table III). From these sources, materials related to the object of study were chosen, such as precise definitions, fundamental concepts, the importance of the variables studied, and current regulations in the field of occupational health.

Furthermore, as part of the methodological strategy, comparative studies were carried out to evaluate and contrast different approaches and practices in occupational safety and health, both nationally and internationally. This comparative analysis proved fundamental in identifying best practices and specific areas for improvement that can be implemented in Ecuadorian hospitals, thus contributing to the protection and well-being of health workers.

Two researchers independently carried out the search process, removed duplicate records, and screened titles and abstracts based on predefined inclusion criteria. Subsequently, the same authors performed a full-text assessment of potentially eligible studies. Final decisions regarding inclusion or exclusion were reached by consensus, and any disagreements were resolved through consultation with a third reviewer.

IV. RESULTS

The methodology employed focused on the collection and analysis of key definitions related to the research topic. A systematic review is presented (see Figure 1), summarizing the study selection process using the PRISMA method.

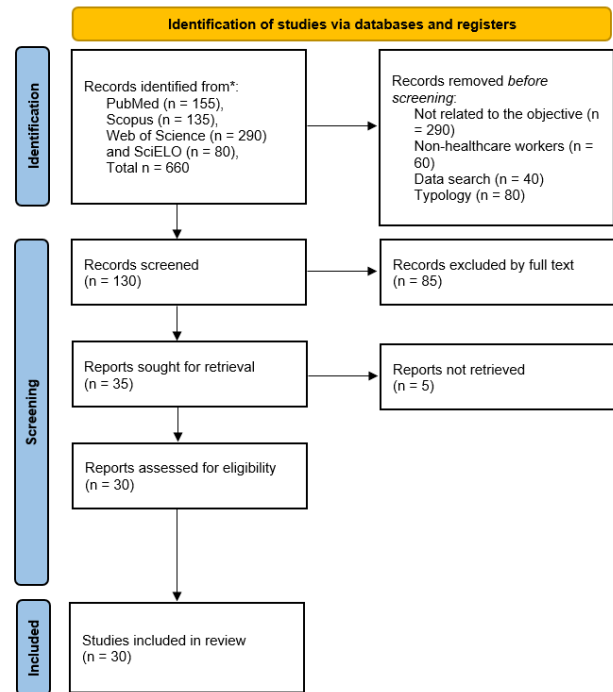


Fig. 1 Systematic review of selected articles using the Prisma Method

From all the articles obtained through the search engines, 30 scientific articles (See table IV) were selected that correspond to the following authors, along with their respective interpretations.

TABLE IV AUTHORS' PERSPECTIVE AND ANALYSIS FOR THE PRESENTATION OF RESULTS.	
Author	Perspective/Analysis
[27]	Risk prevention in healthcare institutions is a set of measures and practices designed to protect the health and safety of workers.
[28]	The importance of risk prevention lies in its ability to improve the quality of care in healthcare institutions.
[29]	Risk prevention is considered an essential component of hospital management, which not only protects employees.
[30]	Risk prevention is a shared responsibility that involves the active participation of all organizational levels, from senior management to frontline employees.
[31]	Risk prevention is a dynamic and continuous process that must adapt to changes in the hospital environment, new technologies, and regulations, in order to maintain a safe and healthy work environment.
[1]	Occupational health is related to various factors, which have led to distinctive characteristics in the development of these programs in Latin America, compared to industrialized countries.
[2]	In Ecuador, the health system seeks to improve the quality of life of the Ecuadorian population, ensuring equitable and accessible coverage.
[3]	In healthcare institutions, implementing preventive measures is fundamental to minimizing exposure to various risks that can cause occupational illnesses.
[4]	A safe work environment reduces stress and burnout among staff, which contributes to the overall well-being of workers and improves the quality of service provided to patients.
[6]	Complying with these requirements not only avoids legal sanctions and fines but also reinforces social responsibility and professional ethics.
[7]	A proactive approach to occupational safety and health reflects a serious commitment to protecting all those involved, increasing patient confidence.
[8]	The implementation of prevention strategies contributes to operational efficiency by reducing costs associated with workplace

	accidents and illnesses, such as medical expenses and lost productivity.
[9]	Regulations are rules or guidelines established by government authorities or regulatory bodies to control and direct activities within a specific industry or sector.
[10]	In the context of occupational safety, regulations focus on preventing workplace accidents and illnesses through the implementation of specific standards and procedures.
[11]	Regulations aim to prevent risks and protect workers through specific standards regarding equipment and working conditions.
[12]	Regulatory compliance in occupational safety is crucial to ensuring that healthcare institutions provide a safe environment for their workers and patients.
[13]	These standards are designed to identify, assess, and control workplace risks, ensuring that the necessary measures are taken to prevent accidents and illnesses.
[14]	Regulatory compliance helps institutions avoid legal sanctions and fines that can arise from non-adherence to regulations.
[15]	Non-compliance can have consequences such as the interruption of operations, loss of license, and damage to the institution's reputation.
[16]	Regulatory standards contribute to the creation of a safety culture within the institution.
[17]	Occupational safety is a discipline that focuses on promoting and maintaining the highest degree of physical, mental, and social well-being of workers in all occupations.
[18]	To ensure that employees can work in a safe and healthy environment. In addition to preventing accidents and illnesses, good management increases productivity and employee morale.
[19]	Health is a state of complete physical, mental, and social well-being, and not merely the absence of disease or infirmity, according to the definition of the World Health Organization (WHO).
[20]	This comprehensive approach to health highlights the importance of factors such as the ability to manage stress, maintain healthy relationships, and enjoy life, in addition to having a body free from illness and medical conditions.
[21]	To reduce risks, preventive measures are applied by configuring the work environment to mitigate natural conditions that cause minor and serious harm to workers.

[22]	Compliance with laws regarding occupational risk prevention emphasizes the importance of defining workers' responsibilities and rights in relation to occupational safety.
[23]	The implementation of preventive and protective measures to avoid accidents and illnesses, as well as the continuous improvement of work processes and conditions.

V. DISCUSSION

The results obtained from the literature review reveal a range of diverse and complementary approaches to the importance of risk prevention in healthcare institutions. Each author offers a unique perspective, enriching the understanding of the topic and underscoring the complexity of risk management in hospital settings.

The findings from the reviewed articles underscore the importance of risk prevention in healthcare institutions as an essential component for ensuring the safety and well-being of both workers and patients. Each author provides a unique perspective on how and why these measures should be implemented.

For example, Collantes and Quispe [27][28] highlight risk prevention as a fundamental set of practices for protecting the health and safety of workers, as well as improving the quality of care in healthcare institutions. This approach underscores the dual nature of risk prevention: it not only protects employees but also benefits patients by ensuring a safer and healthier environment.

On the other hand, authors such as Espinosa and Cobena [30][31] emphasize the dynamic and shared nature of risk prevention, suggesting that it is a continuous process requiring the participation of all levels of the organization and that it must constantly adapt to changes in the environment, new technologies, and regulations. This approach implies that healthcare institutions must be constantly evolving and adapting to maintain their safety standards.

In the Latin American context, Pérez [1] and Soler [2] offer a comparative and local perspective, indicating that occupational health in this region has distinctive characteristics due to socioeconomic and political factors that influence the implementation and development of these programs. This variability in approaches highlights the need to adapt risk prevention practices to the specificities of each context.

Furthermore, the discussion also addresses the economic and operational impact of risk prevention. Ochoa [8] points out that the proper implementation of prevention strategies not only improves safety but also contributes to operational efficiency by reducing the costs associated with workplace accidents and

illnesses. This highlights a financial argument in favor of investing in occupational safety, which is crucial for the long-term sustainability of healthcare institutions.

While regulatory compliance focuses on adherence to formal standards and legal requirements, risk prevention extends beyond compliance by emphasizing proactive and adaptive strategies aimed at minimizing workplace hazards. This distinction is crucial, as compliance alone does not guarantee effective prevention, particularly in complex healthcare environments where contextual factors influence implementation.

Finally, regarding regulatory compliance, several authors emphasize the importance of adhering to occupational safety regulations to avoid legal penalties, maintain institutional reputation, and foster a safety culture within the organization. This suggests that compliance should not only be viewed as a legal obligation but also as an integral component of professional ethics and corporate social responsibility.

VI. CONCLUSIONS

In conclusion, the literature review has identified several complementary approaches to risk prevention in healthcare institutions. By integrating these approaches, a more robust and effective risk management strategy can be developed, one that not only protects workers but also improves operational efficiency and the quality of patient care. This comparative analysis is key to identifying best practices and adapting solutions that can improve the implementation of occupational safety and health strategies in Ecuadorian hospitals, both in Ecuador and in other regions of the world.

The methodological process also included a critical appraisal of the selected literature, considering the relevance, currency, and validity of the sources. This approach allowed not only the identification of gaps in existing research but also the proposal of practical recommendations to improve safety and health management in the hospital setting.

Special attention was also paid to studies that address the specific characteristics of the healthcare sector in Ecuador, including the influence of public policies and the structure of the healthcare system. These aspects are crucial for understanding how institutions can effectively adopt current regulations and standards, as well as for proposing improvements in the training and education of healthcare personnel in risk prevention.

Finally, the results obtained from this literature review will be integrated into a theoretical framework that supports the formulation of strategies and recommendations aimed at continuous improvement in occupational safety and health in the country's hospitals, with the goal of protecting both workers and patients, and ensuring a safe, efficient, and healthy work

environment. This review contributes to the literature by providing a structured synthesis of the relationship between regulatory compliance and risk prevention, highlighting conceptual distinctions and identifying gaps in empirical evidence within the Ecuadorian and Latin American context.

Strengths and limitations of the study

This study offers a comprehensive analysis of occupational safety and health in healthcare institutions in Ecuador, covering multiple aspects such as risk identification, regulatory compliance, and the implementation of preventive measures. The PRISMA method was used to conduct a systematic literature review, ensuring a rigorous evaluation and exhaustive collection of relevant data. By focusing on Ecuador, the study highlights the specific characteristics and challenges of the region, differentiating them from the contexts of industrialized countries.

Future lines of research

Empirical studies should be conducted in healthcare institutions to collect direct data that assess the real impact of occupational safety policies and practices. Furthermore, the economic impact of regulatory compliance in the healthcare sector should be explored, analyzing the benefits in reducing workplace accidents and occupational illnesses, as well as the costs associated with implementing these regulations.

REFERENCES

- [1] C. A. Pérez García, «Seguridad laboral y salud ocupacional en el Hospital II-E Juanjuí,» pp. 1-140, 2023.
- [2] J. M. Soler, Y. A. Moreno y J. E. García, «La Salud Ocupacional y su respuesta histórica a las necesidades de salud de los trabajadores,» *Revista Cubana de Salud y Trabajo*, vol. 21(2), pp. 14-29, 2020. Obtenido de <http://revsaludtrabajo.sld.cu/index.php/revsyt/article/view/140>
- [3] C. Basualto Cárcamo, N. Gray Gariazzo y F. Benavides, «Políticas en salud laboral en personas trabajadoras mayores: análisis comparativo entre España y Chile,» *SESPAS*, pp. 102-382, 2024. <https://doi.org/10.1016/j.gaceta.2024.102382>
- [4] J. A. Cangahuala Sedano, «Sistema de gestión de seguridad y salud ocupacional para la prevención de accidentes laborales en empresas mineras,» *LLamkasun: Revista de Investigación Científica y Tecnológica*, vol. 3(1), pp. 112-118, 2022. Obtenido de <https://dialnet.unirioja.es/servlet/articulo?codigo=8510597>
- [5] T. Jurado Llori, X. Cabrera Pulgarin, K. Escobar Segovia y D. Paz Barzola, «Burnout Syndrome in Physicians of the Surgical Hospitalization Area of a Second-Level Hospital in the City of Guayaquil,» *Springer Nature*, 2024. doi: https://doi.org/10.1007/978-3-031-52258-1_20
- [6] F. M. Escandell, L. Pérez y J. Martínez, «Exposición laboral a citostáticos en el equipo de enfermería de atención primaria,» *Revista Medica Clinica Las Condes*, pp. 255-363, 2024. <https://doi.org/10.1016/j.rmcl.2024.06.002>
- [7] E. Espinoza-Guerra, J. Quimí-Espinosa, K. Escobar-Segovia y I. Camacho-Polo, «Riesgos psicosociales y satisfacción laboral en empresas que prestan servicios de salud ocupacional: un estudio en la ciudad de Guayaquil,» *Psicología Unemi*, vol. 4(7), pp. 21-39, 2020. <https://doi.org/10.29076/issn.2602-8379vol4iss7.2020pp21-39p>
- [8] C. E. Ochoa Díaz, «La seguridad y salud ocupacional de los trabajadores y el mejoramiento del medio ambiente laboral referente a las pausas activas,» *Revista Universidad y Sociedad*, pp. 308-313, 2020.
- [9] J. T. Aráuz, «Riesgos laborales en personal administrativo de UNAN-Managua, FAREM-Matagalpa, Nicaragua,» *Revista Científica Esteli*, vol. 49, pp. 4-23, 2024. <https://doi.org/10.5377/esteli.v13i49.17882>
- [10] L. J. Delgado-Arteaga, E. R. Borroto-Cruz y E. L. Moreira-Macías, «Normativas en seguridad y salud ocupacional y los problemas éticos,» *Revista San Gregorio*, pp. 176-200, 2020. <https://doi.org/10.36097/rsan.v1i40.1406>
- [11] L. Arteaga y R. Cruz, «Normativas en seguridad y salud ocupacional,» *Revista San Gregorio*, vol. 40. <https://doi.org/10.36097/rsan.v1i40.1406>
- [12] C. Bello y L. M. Meneses, «Análisis del cumplimiento normativo en seguridad y salud laboral en la minería Informal en Colombia,» pp. 1-50, 2024.
- [13] J. Llumiquire y D. Pichoasamin, «Seguridad ocupacional en producción de combustible alternativo,» *Conectividad*, pp. 107-121, 2024.
- [14] J. C. Carranco, «Propuesta de un modelo de gestión para la seguridad industrial y salud,» *Latam: revista latinoamericana de Ciencias Sociales y Humanidades*, vol. 5(3), pp. 415-433, 2024. <https://doi.org/10.56712/latam.v5i3.2182>
- [15] R. D. Carrera-Salazar y V. W. Rojas-Luján, «El derecho a la seguridad y salud ocupacional de trabajadores en las empresas. Regulación normativa en la legislativa peruana,» *CIENCIAMATRIA*, vol. 10(9), pp. 108-125, 2024. <https://doi.org/10.35381/cm.v10i9.1354>
- [16] A. R. Gonzalez, «Seguridad y normativas en la gestión odontológica. Cumplimiento de normativas sanitarias y de seguridad en clínicas dentales. Gestión de riesgos y prevención de infecciones en la práctica,» *Revista Científica Multidisciplinar*, vol. 5(7), pp. 1-267, 2024. <https://doi.org/10.47820/recima21.v5i7.5529>
- [17] W. Gallegos, «Revisión histórica de la salud ocupacional y la seguridad industrial,» *Revista cubana de salud y trabajo*, vol. 13(3), pp. 45-52, 2024.
- [18] M. Silva-Peñaherrera, P. Merino-Salazar, M. López-Ruiz y A. R. Gómez-García, «La salud ocupacional en Ecuador: una comparación con las encuestas sobre condiciones de trabajo en América Latina,» *Revista Brasileira de Saúde Ocupacional*, vol. 45(1), pp. 1-20, 2020. <https://doi.org/10.1590/2317-6369000010019>
- [19] A. O. Viera, «El bienestar psicológico, un indicador positivo de la salud mental,» *Revista cubana de salud y trabajo*, pp. 34-39, 2024.
- [20] F. Lema-Jiménez, M. Quevedo-Barros, J. Ochoa-Crespo y J. Ormaza-Andrade, «Análisis de la estructura organizacional

- de seguridad y salud ocupacional, una revisión desde la legislación Ecuatoriana,» *Dominio de las Ciencias*, pp. 724-744, 2021.
- [21] M. Gallegos y T. Castillo, «Eficiencia, carga de trabajo, salud y seguridad ocupacional en la industria de la construcción en las principales ciudades del Ecuador.,» *Revista Digital Novasinergia*, pp. 150-162, 2022. <https://doi.org/10.37135/ns.01.09.09>
- [22] S. K. Herrera, «Caracterización clínico epidemiológica de las enfermedades broncopulmonares diagnosticadas en el Instituto Nacional de Salud de los Trabajadores.,» *Revista Cubana de Salud y Trabajo*, vol. 8(1), pp. 46-51, 2024.
- [23] Secretaría de Derechos Humanos, «Reglamento interno de seguridad y salud de los trabajadores y mejoramiento del medio ambiente del trabajo de la secretaria de derechos humanos.,» pp. 1-35, 2021. Obtenido de: https://www.derechoshumanos.gob.ec/wpcontent/uploads/2021/05/15.reglamento_de_seguridad_y_salud_ocupacional_sdh.pdf
- [24] A. Bermúdez Del Sol, «Plan de prevención de riesgos laborales para el personal médico y de enfermería del hospital básico de Alausí, Ecuador.,» *Facultad de Ciencias Medicas*, pp. 1-54, 2023. Obtenido de: <https://dspace.uniandes.edu.ec/bitstream/123456789/16733/1/UA-MSO-EXC001-2023.pdf>
- [25] M. B. Hernández, «Prevención de riesgos laborales y poder de dirección del empresario: el ius resistitiae del trabajador ante un riesgo grave e inminente para su vida o su salud.,» *Trabajo y derecho: nueva revista de actualidad y relaciones laborales*, vol. 111(4), pp. 1-78, 2024.
- [26] E. Lizarzaburu Bolaños y F. Hugo G., «Revisión sistemática de literatura del concepto “organización criminal” mediante el modelo PRISMA,» *Revista Criminalidad*, vol. 66(1), pp. 107-127, 2024. <https://doi.org/10.47741/17943108.564>
- [27] G. M. Collantes, «Evaluación de factores de riesgos laborales en el Hospital Básico Israel Quintero Paredes del Cantón Paján para mitigar los impactos en el personal,» *Polo del Conocimiento: Revista científico-profesional*, vol. 6(12), pp. 1-16, 2021. Obtenido de: <https://dialnet.unirioja.es/servlet/articulo?codigo=8219268>
- [28] K. Quispe Sornoza, «Conocimiento de principios de bioseguridad y riesgos biológicos en trabajadores del servicio de oncología del Hospital Regional del Cusco-2020.,» *Universidad Cesar Vallejo*, pp. 1-123, 2021. Obtenido de: <https://hdl.handle.net/20.500.12692/57043>
- [29] L. F. Sosa, «Gestión De Seguridad Y Salud Ocupacional Del Hospital General Esmeraldas Sur-Delfina Torres De Concha Periodo 2020-2021.,» *Doctoral dissertation, Ecuador-PUCESE-Maestría Gestión del Talento Humano*, pp. 1-76, 2022. Obtenido de: <https://repositorio.puce.edu.ec/handle/123456789/38541>
- [30] G. B. Espinosa Arreaga, «Diseño de un sistema de gestión de seguridad y salud ocupacional en hospitales básico Zumba.,» *Master's thesis, Quito, Ecuador: Universidad Tecnológica Israel*, pp. 1-57, 2022. Obtenido de: <http://repositorio.uisrael.edu.ec/handle/47000/3247>
- [31] F. J. Cobeña, «Condiciones laborales y riesgos en el Hospital Básico Chone: propuesta de un programa de seguridad y salud ocupacional.,» pp. 1-67, 2023. <https://doi.org/10.33936/qkrcs.v7i2.6177>