The risk management and interference in occupational health worker: integrative review
Silva, Rafael Pires; Barreto, Bruna Maiara Ferreira; Camacho, Alessandra Conceição Leite Funchal; Valente, Geilsa Soraia Cavalcanti

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Objective: To identify the main interference of work on oil rigs in occupational health; describe the actuation of nurse in the management of occupational risks on oil rigs; analyze how risk management can promote occupational health worker.

Method: an integrative review, in order to answer the following research question: What is produced on the nurse in managing risks in occupational health worker oil rig?

Results: companies that had nurses working in the planning for the prevention of accidents had fewer reports of work accidents and occupational diseases, as efforts to prevent these diseases were being performed with increasing frequency.

Conclusion: The management of occupational risks is a major challenge for the entire multidisciplinary team of health of certain oil companies, and the nurse is the professional activities highlighted in this scope. Descriptors: Occupational health nursing, Safety management, Occupational risks.
INTRODUCTION

To situate the understanding of workers’ health, it is essential to understand all the work mechanism, relationships between the institutions and their employees, whether public or private, as well as all that is necessary to maintain, promote and take care of workers’ health, based on the main causes, evidence of accidents and occupational risks, to promote the prevention, and when necessary to take care of these workers.

Work on the offshore environment has grown enormously, enabling the work of nurses in this environment. The offshore nurse should plan, promote, prevent occupational risks to workers’ health on oil platforms and not only perform healing functions in cases of work accidents offshore environment.¹ It is important to highlight the significance of offshore word translates in “far from the coast” and refers to activities on platforms or ships, in shifts of 12 hours, and the scale of 14x14, or 14 days at home and 14 days on the platform, and/or the 14x21, which means that the nurse works 14 days and 21 days is off. Although it is an existing action scene for a long time, the quantitative studies on offshore are still incipient.

The focus in this type of environment is the petrochemical industry, defined as a chemical and industrial processes, or any industry that produces some sort of chemical material as a final product. This concept is very important because it reveals the unhealthy and dangerous to work with chemicals, risks that will be up to the nurse managing throughout their workday. The industrial chemical complex is a set of industries whose dynamics is governed by common factors since it is a segment of the same production petrochemical chain aimed at the same consumer market. These companies have workers under a tiring and difficult workday, which may generate risks and occupational diseases.²

According to Law nº 8.213, of July 24, 1991, there are plans of Social Security, transcribed by Article 19, which define how workers’ compensation whatever happens by the exercise of work in the service of the institution employment whether public or private, or by insurance special work service, which caused injury or functional disorder, which causes death or reduction of working capacity of each professional, permanent or temporary. Occupational diseases and those derived from work are considered as work accidents.³
To prevent accidents at work in that environment, the Regulatory Standard Number 33 of December 22, 2006, defines and outlines a goal that has as minimum requirements for the identification, recognition, assessment, monitoring and control of risks in confined spaces, to ensure the health of this employees. Thus, the safety and health management should be planned, programmed, implemented and evaluated by health professionals of the employing institution. As a result, technical preventive, administrative and personal measures should be offered to these professionals to come and perform their work in confined spaces.

As an objective of the study, there is the management of occupational risks on oil rigs. The guiding question was described as: How do the nurses involved in the management of occupational risks on oil rigs prevent major interference in workers’ health and promote health in an offshore environment?

The objectives of this study are: to identify the main interference of work on oil rigs on workers’ health; describe the work of nurses in the management of occupational risks on oil rigs; analyze how the management of occupational risks can promote the health of workers on oil rigs.

METHOD

The concept of methodology, focus of discussion is a subject full of controversies because there are people who equate methods and techniques, such as the manuals and American texts, which are produced for the training of researchers. The theory and methodology go together and linked. The set of techniques is the instrumental need to apply the theory, so here is treated as a fundamental element for methodological consistency and systematic research.

An Integrative Literature Review of a qualitative approach was held, in order to answer the research question: What is produced on the nurse in occupational risks managing in worker’s health on an oil rig?

The main electronic databases related to health were used: Latin American and Caribbean Health Sciences (LILACS); Scientific Electronic Library Online (SciELO) and Medline contained in VHL - Virtual Health Library, from the following descriptors: nursing work, safety management, and occupational risks, using the Boolean OR operator. The Boolean operators AND was not used because no articles were found possessing the descriptors mentioned above.
As inclusion criteria, studies were selected in Portuguese and English only with full texts and that addressed the issue in question, published from 2006 to 2012. A brief reading of the abstracts and titles of their articles and texts selected were performed, excluding those who did not treat the subject studied.

In the database Scientific Electronic Library Online (SciELO), were found 157 productions, and selected nine articles that met the search criteria, and a dissertation which featured the theme proposed in this study, located in the Engineering School Library of the Universidade Federal Fluminense - UFF.

In the other databases, there were nine articles in the Lilacs, 9 in SCIELO and 2 in Medline. After the brief reading of 2 Medline articles in English, they were excluded because they did not have the subject to be studied.

For the quantitative articles by publication year, there were the following results: in 2011 N = 3 found (16.66%) of the articles; in 2010 N = 2 (11.11%); in 2009 only N = 1 (5.55%); in the previous year, 2008, N = 7 (38.88%); in 2007 there were N = 3 (16.66%); and finally in 2006 there were N = 2 (11.11% ) published. It is noticed that in 2008 there was the largest number of publications according to the theme, which allowed with the texts of that time give a greater emphasis to the subject being studied. For 2012, no articles were found during the period of the searches.

In the quantitative types of methodological approaches taken in the respective selected articles, there were studies with quantitative nature in 55.55% (n=10), while the qualitative studies presented 44.44% (n=8) of cases.

Of the studies selected in Scielo, Lilacs, and Medline, they had quantitative and qualitative methodological approaches, not being evidenced any other methodology. It is noticed that the publications with quantitative and qualitative approaches are nearly in balance, showing that research regarding occupational health are paired and are constant in scientific circles.

<table>
<thead>
<tr>
<th>Type of Study</th>
<th>N</th>
<th>F (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantitative</td>
<td>10</td>
<td>55.55</td>
</tr>
<tr>
<td>Qualitative</td>
<td>8</td>
<td>44.44</td>
</tr>
</tbody>
</table>

Source: BVS, 2012

Among the publications analyzed for the preparation of this study, 66.66% (n=12) of the articles were written by nurses. The professions of nursing, engineering, psychology, and speech therapy correspond to 5.55% (n=1) of the articles written. It is noteworthy that two articles had no professional identification, which corresponds to 11.11% (n=2) of analyzed articles.

The analysis and discussion of this study also occurred through a master’s thesis dissertation of the engineering school of the Universidade Federal Fluminense, which addressed the theme entitled “The safety management system and workers’ health: a
case study on a petrochemical industry in Rio de Janeiro”, which was essential in the construction of this study, since the amount of work produced in this area is still incipient.

## RESULTS AND DISCUSSION

The following table describes the year, authors, entitling, title and journal name. It addresses the type of publication and methodological approach, the essence of content/knowledge production. Furthermore, it emphasizes the databases where articles were found, adding to the recommendations of the author(s).

<table>
<thead>
<tr>
<th>Year/Author/entitling/Title/Name of the Journal</th>
<th>Type of Publication and methodological approach</th>
<th>Essence of Content/Knowledge Production</th>
<th>Recommendations of the author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 2008, Regina Stella Spagnuolo, Renata Cristina Silva Baldo, Ivan Amaral Guerrini. - Epidemiological analysis of accidents with biological material reported to the Worker's Health Reference Center - Londrina. Revista Brasileira de Epidemiologia.</td>
<td>Retrospective, descriptive, and quantitative approach because records with notifications of occupational accidents with the biological material were found. These records are for the period of 1 year.</td>
<td>The records of occupational accidents notifications regarding health units in Londrina were analyzed, within one year to determine the profile of injured workers. Thus, it was noted it is the most common types of accidents in these professionals.</td>
<td>As recommendations, we are offering training courses for these professionals, offered by their work institutions and the government. Providing vaccines for these workers to prevent future problems and increasing the supply of containers to dispose sharp material.</td>
</tr>
<tr>
<td>- 2006, Denise Tolfo Silveira, Heimar de Fátima Marin. - Minimum Data Set in Nursing: identification of categories and items to practice nursing in ambulatory</td>
<td>It is a retrospective descriptive study. Quantitative.</td>
<td>This study aims to describe the categorization of the elements identified in the practice of nursing consultation in occupational health. But to carry out this task, the feature of computerization of</td>
<td>This study emphasizes the importance of determining a set of essential data that has priority on forms elaboration that feed the databases so that this data can be better documented and structured in information systems.</td>
</tr>
<tr>
<td>Author(s)</td>
<td>Title</td>
<td>Journal</td>
<td>Year</td>
</tr>
<tr>
<td>-----------</td>
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</tr>
<tr>
<td>Mônica Bonagamba Chiodi, Maria Helena Palucci Marziale, Maria Lúcia do Carmo Cruz Robazzi</td>
<td>Accidents with biological material among public health workers</td>
<td>Revista Brasileira de Enfermagem</td>
<td>2007</td>
</tr>
<tr>
<td>Elvia Araújo do Nascimento, Sarita Brazão Vieira, Tânia Batista da Cunha</td>
<td>Occupational risks: the traditional methodologies of analysis of work situations</td>
<td>Revista Latino-americana de Enfermagem</td>
<td>2010</td>
</tr>
<tr>
<td>Karine Kummer Gemelli, Eunice Fabiani Hilleshein, Liana Lautert</td>
<td>The effects of work shifts on workers’ health</td>
<td>Revista de Psicologia</td>
<td>2008</td>
</tr>
</tbody>
</table>

**Table:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Author(s)</th>
<th>Title</th>
<th>Journal</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>2007</td>
<td>Mônica Bonagamba Chiodi, Maria Helena Palucci Marziale, Maria Lúcia do Carmo Cruz Robazzi</td>
<td>Accidents with biological material among public health workers</td>
<td>Revista Brasileira de Enfermagem</td>
<td>Information was used, that is, all information previously stored in SIE - Nursing Information System were analyzed to obtain the main occupational risks.</td>
</tr>
<tr>
<td>2010</td>
<td>Elvia Araújo do Nascimento, Sarita Brazão Vieira, Tânia Batista da Cunha</td>
<td>Occupational risks: the traditional methodologies of analysis of work situations</td>
<td>Revista Latino-americana de Enfermagem</td>
<td>It is an exploratory research with the use of a quantitative approach to data analysis.</td>
</tr>
<tr>
<td>2008</td>
<td>Karine Kummer Gemelli, Eunice Fabiani Hilleshein, Liana Lautert</td>
<td>The effects of work shifts on workers’ health</td>
<td>Revista de Psicologia</td>
<td>This study is a systematic review of the literature. Articles with cross-sectional, cohort and case-control</td>
</tr>
</tbody>
</table>

**Notes:**

- SCIELO information was used, that is, all information previously stored in SIE - Nursing Information System were analyzed to obtain the main occupational risks. It is recommended that the strategies to prevent the occurrence of occupational accidents involving sharp materials should include joint actions established between workers and management of services and should be aimed at improving working conditions in general.
- The author suggests changing practices and traditional and preventers work methodologies.
- This study is a systematic review of the literature. Articles with cross-sectional, cohort and case-control characteristics were analyzed. For this reason, a study was carried out to analyze the health of workers working in shifts or even in non-shifts.
- This study aimed to describe the effect of work shifts on worker’s health. For this, a study was carried out to analyze the health of workers working in shifts or even in non-shifts.
- It is suggested the development of research with other types of designs, allowing more accurate monitoring of the influence of work shifts on occupational health.
<table>
<thead>
<tr>
<th>Year</th>
<th>Authors</th>
<th>Study Description</th>
<th>Results/Findings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>Helena Hemiko Iwamoto, Karoline Faria de Oliveira, Gilberto de Araújo Pereira, Bibiane Dias Miranda Parreira e Bethania Ferreira Goulart</td>
<td>This is a retrospective study. There were data collection workers held. This study has as guidelines the prevention, screening and early diagnosis of injuries to workers' health. There is an Occupational Health Control Program (PCMSO), the Federal of the University of Triângulo Mineiro evaluating the adherence of workers to the program, which aims to improve the quality of life.</td>
<td>Occupational health is recommended to seek new strategies for greater adherence of workers to the promotion, prevention and rehabilitation programs.</td>
</tr>
<tr>
<td>2011</td>
<td>Sylvia Boechat Coutinha, Ana Claudia Fiorini, Iára Bitante de Oliveira, Maria do Rosário Dias de Oliveira Latorre, Léslie Piccolotto Ferreira</td>
<td>It was a field study, descriptive and exploratory in which workers observed and analyzed the data reported by workers. Quantitative.</td>
<td>To avoid exposure to chemical and physical risks at work, as these are leading complications in their lives in the workplace.</td>
</tr>
<tr>
<td>2010</td>
<td>Samanta Rauber Gallas, Rosane Teresinha Fontana.</td>
<td>This qualitative study aimed to investigate concepts and nursing practice. The article shows the negligence of the nursing staff on the use of PPE and on their workload. So, these events are predisposing factors.</td>
<td>It is suggested that professionals are affected by such accidents, as well as other professionals, will let their cleaner and healthier work.</td>
</tr>
<tr>
<td>Year</td>
<td>Authors</td>
<td>Title</td>
<td>Methodology</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2008</td>
<td>Jorge Alberto Bernstein, Iriart, Roberval Passos de Oliveira, Shirlei da Silva Xavier, Alane Mendara da Silva Costa, Gustavo Ribeiro de Araújo, Vilma Sousa Santana</td>
<td>Representations of informal jobs and health risks among housemaids and construction workers.</td>
<td>Qualitative study, focusing on in-depth analysis of incidents of non-fatal work-related injuries based on a prospective cohort study.</td>
</tr>
<tr>
<td>2008</td>
<td>Jorgana Fernanda de Souza Soares, Marta Regina Cezar-Vaz, Raul André Mendoza-Sassi Tabajara, Lucas de Almeida, Ana Luiza Muccillo-Baisch, Maria Cristina Flores Soares, Valdecir Zavarese da Costa</td>
<td>Perception of temporary workers on occupational risks in Rio Grande do Sul port, Rio Grande do Sul, Brazil.</td>
<td>It is a cross-sectional descriptive study with a quantitative approach to data held in Rio Grande port with temporary dock workers.</td>
</tr>
<tr>
<td>2008</td>
<td>Silvia Helena Henriques Camelo, Emília Luigia Saporiti Angerami</td>
<td>Literature review.</td>
<td>The study tends to identify the categories of psychosocial risks related to work and care: contributions to the workers' health.</td>
</tr>
</tbody>
</table>
Psychosocial risks at work that can lead to stress: an analysis of the literature. - Ciência do Cuidado em Saúde, 2007, Doroteia Aparecida Höfelmann, Nelson Blank. - Self-assessment health among industrial workers in Southern Brazil. - Revista de Saúde Pública, 2008, Daiana Picoloto, Elaine da Silveira. - Prevalence of musculoskeletal symptoms and associated factors among workers in a metallurgical industry of Canoas - RS. - Ciência e Saúde Coletiva, 2006, Marcia Tereza Luz Lisboa, Marcia Moreira de Oliveira, Lidiane Dias Reis. - Night work and nursing practice: A perception of nursing students. - Revista de Enfermagem da Ciência do Cuidado em Saúde. Cross-sectional study with a probabilistic sample of 482 metalworking industry workers in Joinville. Quantitative. Industrial workers perform a self-assessment of their health and also of associated factors. And the prevalence of self-assessment prevailed socio-economic/demographic factors, lifestyle, psychosocial and health status, as the main negative aspects of the health of these workers. This is a quantitative research. The analytical observational cross-sectional epidemiological method was used, to obtain data of symptoms in the study population and its associated factors. A study was conducted with the objective of identifying the musculoskeletal symptoms reported by workers of a metallurgical industry in the city of Canoas-RS and their association with sociodemographic and occupational variables. It is a quantitative study. The study has brought relevance on night work and SUS harmful and direct complications for the health of nursing workers. The survey was conducted from nursing students, who although only a minority of nursing students have had experience with the development of strategies for identification of psychosocial risks in the work that can lead to occupational stress, as well as the implementation of interventions that promote beneficial results to the employee. It is suggested conducting more studies with greater depth in the measurement of aspects related to the control and physical and psychological demands on the workplace and inferring the cause and effect relationship. Therefore, it is suggested that the inclusion of the theme about night work, for classroom discussion on nursing work and health of nursing workers. Addressing this issue further in the course of graduation in nursing, there will be a better preparation and awareness of the professional future.
<table>
<thead>
<tr>
<th>Year</th>
<th>Authors</th>
<th>Title</th>
<th>Abstract</th>
<th>Recommendations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Elizabeth Rose Costa Martins, Regina Célia Gollner Zeitoune</td>
<td>Working conditions as triggering factor of substance use by nursing workers.</td>
<td>This is a descriptive study with qualitative approach. The study had as its object the use of psychoactive substances by nursing staff and its relationship with work. In the study, the objective was to show the working conditions as a factor that triggers the use of these drugs by nursing staff. Working conditions that are related to personnel quantitative nursing staff, many patients, and so on.</td>
<td>It is recommended seeking to know the reality of working professionals nursing in a way that they can monitor situations where there is the use of psychoactive drugs by professionals and together with the occupational health service staff propose a care plan for this employees.</td>
</tr>
<tr>
<td>2011</td>
<td>Rosângela Marion da Silva, Carmem Lúcia Colomé Beck, Tânia Solange Bosi de Souza Magnago, Maria Isabel Sampaio Carmagnani, Juliana Petri Tavares, Francine Cassol Prestes</td>
<td>Night work and the impact on the nurses’ health.</td>
<td>This study is characterized as a research field, descriptive with a qualitative approach. This study presents and discusses the changes in the health of nursing professionals. These changes were perceived by them as a detrimental factor to health. This review was performed by nurses at nighttime. It was noticed that work shift is revealed with changes in biological balance, eating habits and sleep, loss of attention, the accumulation of errors in the humor state and family and social life.</td>
<td>It is suggested further studies investigating the relation of night work in nursing of physical activity practice during leisure time, with daytime sleepiness and overweight, in an attempt to identify possible relationships and their effects on workers’ health.</td>
</tr>
<tr>
<td>2011</td>
<td>Queliane Gomes da Silva Carvalho, Wanessa de Aguiar Pedrosa, Quitéria Pereira Sebastião</td>
<td>Night work, most of them know some negative effects that can be caused by night work, but often associate only to the physiological aspects.</td>
<td>The study sought to understand the profile of workers in similar active age group admitted from 1997 to 2007 in the hematology hospital diagnosed with acute myeloid</td>
<td>It is recommended that health professionals have enough knowledge to relate certain conditions and the work environment, carried occupations and past history as well as the notification and correct</td>
</tr>
</tbody>
</table>
Acute myeloid leukemia versus occupation: Profile of workers met in Recife Hematology Hospital. -Revista da Escola de Enfermagem da USP. LILACS

leukemia (AML). From then on, it was the profession with the highest prevalence among workers who died. Also it was bothered to seek to identify occupational risks consistent with the onset of AML prevalent in professions.

Field, reports and records analyzes of the company and measurement s of some agents was the method used to produce the study. Qualitative.

This work evaluated and discussed the risks in the operation units of the production process of crushed stone in an open pit mine and, thereafter, proposed control measures for the development of the Risk Management Program (RMP).

Field, reports and records analyzes of the company and measurement s of some agents was the method used to produce the study. Qualitative.

This work evaluated and discussed the risks in the operation units of the production process of crushed stone in an open pit mine and, thereafter, proposed control measures for the development of the Risk Management Program (RMP).


Identification and control of construction occupational risks in a metropolitan region of São Paulo.

REM: R. Esc. Minas, Ouro Preto. LILACS

It is suggested improvements such as the use of drills, building a control cabinet for the crushing and screening and the use of video cameras.

In a general analysis, among the selected studies, there were reports that avoiding workers being exposed to occupational risks of their respective companies, the number of industrial accidents and occupational diseases were minimal. But for this to happen, it is necessary to work continuously with health education to prevent diseases.²

It was clear that most public policies for safety and health of workers must be implemented, and along with these policies, supervision of works for their fulfillment. In addition, it should invest in the education of professionals to make them reflect on their actions and after that take correct attitudes. This issue was raised as a result of employee negligence and carelessness in their work environments. It is worth remembering that not all workers are negligent and reckless.¹⁴

The survey data concerning the main activities, class of workers, major diseases, among others, are essential for the companies to plan strategies that allow the control of occupational risks improving the quality of life of its employees. However, for the nurse’s control be effective over the workers’ health, it is necessary that the company has information systems for the recording of data concerning workers’ health and their main occupational diseases.⁸
According to recommendations, the nurse who plans an action, implements and manages everything is at his fingertips to his planning will be successful because in this way will be working proactively, enabling the protection and recovery worker health when necessary.\(^7\)

For a discussion of this study, thematic categories were necessary.\(^5\) The construction of the three categories will be discussed below, carried out by reading the essence of the content and recommendations of the authors.

**Category 1: Occupational risks management**

Occupational risks are due to work processes and originated from certain material components, machines, tools, facilities, physical space, working methods and other factors that may cause imminent risk to the health of these workers. The nurse is the main character in making the planning and management of occupational risks in the workplace.

In this regard, the distribution of occupational accidents when exposed to biological materials in reporting forms in the Worker’s Health Reference Center of Londrina were analyzed. This survey revealed the high incidence of accidents with perforations, reinforcing the urgent need for constant vigilance and continuous training on the care in handling these objects.\(^7\)

To this end, it is important to pay attention to the need for information systems and is essential for the development of a nursing planning and subsequent management of occupational risks to workers of any professional area. Thus, workers from oil platforms as the other professional classes are benefiting from access to the SIE, since access health information professionals help the healthcare professional to plan and manage these occupational risks, enabling the care to workers and the appropriate prevention in the workplace and also their health.\(^8\)

There may be underreporting of accidents, but it is still uncertain what causes employees to notify or not their accidents. Thus, workers’ compensation and mapping of the main occupational risks is difficult, since no one knows the number of affected workers and the right quantity of accidents that are occurring with these workers.\(^9\)

The occupational risks management to prevent accidents will become better when the effective participation of the workers along with the safety multidisciplinary teamwork is effected, and then the planning guidelines and precautions that should be followed by employees, as they know the real needs of its functions. But of course not ignoring the standardization of safety, guided by the team of safety and health at work.\(^10\)

Thus, when analyzing the data, it is noticed that mandatory reporting creates an epidemiology of major occupational accidents in these health professionals, making the nurse rethink and plan lifelong learning, continuous training of health professionals in
their work environment. The nurse conducting educational activities continuously, will prevent occupational risks and manage these risks, thus promoting safe at work.

**Category 2: Occupational risks and interferences on worker’s health**

Law Number 8,213, of July 24, 1991, which provides for the Plans of Social Security Benefits, the definition of industrial accident described in Article 19 is one that occurs by the exercise of work, on company, or by special insured labor service, causing personal injury or functional disorder, which causes death or reduce the capability of work, permanent or temporary. They are considered as well as the industrial accident commuting accidents, occupational diseases and work diseases.

The work accident is a global problem due to the high rate of occurrence. Death and removing workers from their functions generate economic and political consequences for the whole society since these workers will be less productive, which will generate less revenue for the company and more expense to the government and even the company.

The work shifts directly affect employee’s health, these shifts may be fixed, or rotating shifts. This type of work changes the worker rhythm of life and as result can lead to changes in quality of life, because the life cycle is being changed.

Corroborating this, this type of work is a routine of many professionals of oil platforms and other professional categories, with major changes in workers’ health. Some of these changes are described below: cardiovascular disorders, sleep disorders and wakefulness, musculoskeletal disorders, metabolic disorders, tiredness, dissatisfaction at work, human errors and accidents and impaired family relationships. It is worth mentioning the last two losses to workers’ health since the oil platform workers work at sea in confined spaces, and are away from family and work in shifts facilitator to occupational risks exposure.

There are also risks to acute or chronic injuries that are caused by high temperatures, noisy or dangerous machinery, toxic substances and even explosions. The survey of these risks and accidents (injuries) at work come from the suffering experienced over the years for these workers. These problems are mapped by the multidisciplinary team, as nurses, doctors, engineers and the workers. Thus, facilities, processes and working substances are classified according to the potential risks of causing damage to workers’ health.

Therefore, it can be understood through the analysis of these references that there are many diseases resulting from the work that each employee carries. Through this, it is necessary to map these occupational diseases and occupations that these workers perform to proper planning of education for accident prevention and working conditions of these workers.

**Category 3: The worker’s health on an oil rig**
The work on oil platforms is growing every day and with it the risks inherent in the profession become more evident. The population working in the offshore environment suffers from very high risks related to their profession as they are in confined environments, working with heavy materials and difficult to handle. Additionally, they are isolated from the population, or are working in a group, however, isolated from the family, relatives, friends, and others, which makes the work even more difficult. The importance of work and research in this area is evident.

During industrialization process, the workers act in a not very conducive environment, exposed to toxic substances, risky machinery, long working hours, among others.²

Below, there is a table with potential risks for workers’ health in the area.

<table>
<thead>
<tr>
<th>LIST OF POTENTIAL EXISTING RISKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slips and falls on the floor due to slippery and uneven floor surfaces.</td>
</tr>
<tr>
<td>Falls due to open spaces in floors and channels.</td>
</tr>
<tr>
<td>Falls from big heights.</td>
</tr>
<tr>
<td>Dangers associated with handling, transport and manual lifting tools, materials, among others.</td>
</tr>
<tr>
<td>Inadequate thermal environment, such as very hot one.</td>
</tr>
<tr>
<td>The possibility of fire and explosion.</td>
</tr>
<tr>
<td>Exposure to hazardous substances.</td>
</tr>
<tr>
<td>Exposure to equipment moving parts.</td>
</tr>
<tr>
<td>Monotonous and repetitive activities.</td>
</tr>
<tr>
<td>Poor lighting levels.</td>
</tr>
</tbody>
</table>


By the exhibition held above, it appears that the workers’ health on oil platforms are in constant challenges because the risks these workers are exposed are huge, as well as social and psychological risks.

As for psychological issues, it can be said that it is a drama experienced by all employees of oil platforms, because they live confined for long periods of time and in tight spaces, away from family, friends, social life, among other. These issues can easily be transfixed by some workers, but for others it can be very difficult to adapt to this work environment, and may cause health problems.

With respect to occupational health, it is necessary to find new strategies for greater adherence of workers to the promotion, prevention and rehabilitation programs. Among these strategies, it can be inferred the adoption of healthy habits, the pursuit of...
biopsychosocial balance between professional and personal life, creating an atmosphere of pleasant and productive coexistence among workers, among others.\textsuperscript{12}

CONCLUSION

The occupational risks management is a huge challenge for the whole multidisciplinary team of the health of certain companies, particularly in this study, working in the offshore environment. There is a high relevance in the planning of accident prevention goals since it is critical to the working environment having risk maps listing the main types of workplace accidents and also the methods to avoid these accidents.

The figure of the nurse in this planning in occupational health is important because the nurse has the training focused on the management and strategic planning, which makes it easier to prepare occupational accident research strategies and hence to prevent them. Thus, it is necessary to record all accident notifications within the company, even minimal, for mapping these accidents.

There are occupational health elements, which are a data set, and as an example there are accidents at work, occupational history, environmental risk factors, among others, and comprising a set of essential data for nursing in the area of occupational health. These data are elaborated from the notification of accidents, thus making these accidents known by the documentary record. This data can be further explored by the nursing staff in order to produce correct information for the performance of care practices, every day better in the occupational health area.

Therefore, it is worth noting the importance of research that addresses the risk management theme and interference with health workers on oil rigs as it has been little explored. To this end, on the analysis and discussion of the studied references, it is concluded that the occupational risks management is the best way to reduce and prevent accidents at work that is occupational accidents. The association between worker and multidisciplinary health team is very important for the mapping of the main occupational risks and subsequent strategic planning for the control, prevention and rehabilitation of this worker.
