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OPEN PEER REVIEW

Relationship Between Musculoskeletal Disorders on Job Performance

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

1 comment · 25 Feb 2024

Referee 1 Reviewer

MINOR REVISION 25 Feb 2024

General Questions for Review
• Subject
• 1) Is the article within the scope of the journal? OK
• 2) Does the article have novelty? No
• Title
• 3) Does the title reflect the content appropriately? Please add operating room personnel.
• Relationship between musculoskeletal disorders and work performance of operating room personnel
• 4) Is there any abbreviation in the title? No
• Abstract
• 5) Is there a structured Abstract? OK
• 6) Are Keywords (3-10) selected from MESH? Yes, but the term " Work performance" should be used instead of job performance.
• Introduction
• 7) Clarity of the objectives/hypotheses? (Are the objectives clearly stated?)
• 8) Does the Introduction include: "What we know," "What we don't know" and "Aims"? Yes
• Materials and Methods
• 9) Does the article clearly describe the selection of participants (patients or laboratory animals, including controls)? No, it does not describe the selection of participants.
• 10) Study Design Described Sufficiently? Yes
• 11) Adequacy of the sample studied? Yes
• 12) Subjects Representative of Target Population? Yes
• 13) Provided sample size calculation or justification? No
• 14) Control Subjects Appropriate? Yes
• 15) Power of study declared? No
• 16) Reported actual P values for primary analyses? Yes
• 17) Blinding of Investigators (if applicable)? It is not necessary.
• 18) Blinding of subjects (if applicable)? It is not necessary.
• 19) Identify the methods and apparatus (give the manufacturer's name and address in parentheses)? It is not necessary.
• 20) Identify procedures in sufficient detail to allow other workers to reproduce the results? It is not necessary.
• 21) Identify precisely all drugs and chemicals used, including generic name(s), dose(s), and route(s) of administration? It is not necessary.
• 22) Inclusion/Exclusion Criteria Explained? Not stated
• 23) Appropriate Statistical Analysis? Yes
This study has no code of ethics.
• Results
• 24) Appropriateness, clarity, and adequacy of the Tables and Figures? OK
• 25) Present results in logical sequence in the text, tables, and illustrations, giving the main or most important findings? Yes
• 26) Duplicate data in graphs and tables? No
• 27) Use technical terms as non-technical in statistics, such as "random" (which implies a randomizing

device), “normal,” “significant,” “correlations,” and “sample.”? No

- Discussion
- 28) Conclusion justified & substantiated?
- 29) Analysis supports Conclusion?
- The results have been compared well with those of other studies, but there has been little discussion of the results.
- References
- 30) Proper Writing of the References? OK
- 31) References for the last five years? Only 8 of the 34 references

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear editor

The desired reforms were carried out as much as possible. Thank you for taking the time to edit this article

with respect.

Mention the sampling formula. Done in the text

Considering the presence of a surgical team in the operating room ward, including a physician, anesthesia specialist and assistant, operating room specialist and assistant, nurse, and service staff, please explain the sampling method and study design given different occupational responsibilities, varied work experiences, and various types of surgeries with different risks and injuries. Clearly explain the participant selection process.

Dear reviewer: Participant, and collection data:

In this study, the sample size was determined to be 100 people using statistical relationships (Formula 1). The study employed purposive sampling, the most frequently utilized method for selecting a sample based on the investigator's convenience. Respondents were chosen based on their availability, making convenience sampling the most prevalent approach in clinical research. The study participants were healthcare professionals employed in the operating room (OR) department. The study comprised five anesthesiologists, four general surgeons, two neurosurgeons, seven orthopedists, two ophthalmologists, 40 individuals in the field of Anesthesiology, and 40 members of the operating room staff. Their attributes are outlined in Table 2. Inclusion criteria were absence of history of musculoskeletal

system disorders, absence of accident leading to fracture, absence of second job, working hours of at least 8 hours per day.

Provide a complete explanation of the data collection process.

Data collection process, and data analysis:

Before commencement of the study, written consent was obtained from all participants, and they received in-person training from a qualified individual on completing the questionnaires. Questionnaires were administered through semi-structured interviews, each with a duration of 20 minutes. The interviews were conducted over a period of 9 months. The data analysis method used descriptive statistics such as tables, mean and standard deviation for descriptive variables. Analytical statistics such as chi-square, Fisher's exact, Mann-Whitney, independent t and logistic regression tests were used to determine the relationship between variables and the significance level for all tests in this study was considered 0.05. SPSS 16 statistical software was also used for data analysis.

The shift duration in Ahvaz University of Medical Sciences hospitals is 6 hours. Please correct the 8-hour shifts.

This research was conducted in Abadan University of Medical Sciences and the working hours of the staff are 8 hours

Remove the table of occupational performance questions or mention the results of the occupational performance questionnaire. It is not necessary to mention the items of the questionnaire without answers.

It was corrected

Explain how the occupational performance questionnaire was analyzed.

Each individual completed a questionnaire and provided responses, after which the questionnaire scores were assessed by the guidelines provided. A score falling within the range of 23 to 45 indicates acceptable job performance among the participants, whereas a score below 23 indicates unsatisfactory job performance.

Remove references before 2014 and replace them with newer ones.

References were updated as much as possible

In some references, we had to use the original version due to the reference to the original author of the questionnaire and the translator

Consolidate the four tables mentioned in the text into two coherent tables related to the results.

Include all variables investigated in the results.

Add sections for conclusion, limitations, recommendations, acknowledgment, funding, and conflict of interest.

Mention ethical considerations.

Clarify the inclusion and exclusion criteria for the study.

Inclusion criteria were absence of history of musculoskeletal system disorders, absence of accident leading to fracture, absence of second job, working hours of at least 6 hours per day. In Abadan hospitals, due to the absence of specialized surgical procedures, staff members participated in a wide range of surgical interventions, causing difficulties in assessing specific variables. Additionally, the staff worked in rotating shifts. Consequently, these variables were omitted from the study to avoid introducing bias.

Include the results of the correlation analysis between the type of surgery and the extent of damage based on the Nordic questionnaire.

In Abadan hospitals, due to the absence of specialized surgical procedures, staff members participated in a wide range of surgical interventions, causing difficulties in assessing specific variables. Additionally, the staff worked in rotating shifts. Consequently, these variables were omitted from the study to avoid introducing bias.

Describe confounding variables and the way they were controlled, such as shift rotation or fixed shift work and sport injury history, etc.

Inclusion criteria were absence of history of musculoskeletal system disorders, absence of accident leading to fracture, absence of second job, working hours of at least 6 hours per day. In Abadan hospitals, due to the absence of specialized surgical procedures, staff members participated in a wide range of surgical interventions, causing difficulties in assessing specific variables. Additionally, the staff worked in rotating shifts. Consequently, these variables were omitted from the study to avoid introducing bias.

2 Revision 1

0 comments

No public comments in this round.