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REVIEWER'S REPORT

Manuscript No.: IJAR-50556

Date: 08-03-2025

Title: Chronic Unease and Cognitive Processes: Advancing Safety Management in High-Risk Industries Towards Zero Incidents

Recommendation:

- Accept as it is.....**YES**.....
- Accept after minor revision.....
- Accept after major revision
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality	√			
Techn. Quality		√		
Clarity		√		
Significance			√	

Reviewer's Name: Mr Bilal Mir

Reviewer's Decision about Paper: **Recommended for Publication.**

Comments (*Use additional pages, if required*)

Reviewer's Comment / Report

Overview The review presents an in-depth analysis of the role of chronic unease in safety management within high-risk industries, particularly in the oil and gas sector. It effectively highlights the cognitive processes involved in decision-making, emphasizing the interplay between chronic unease, cognitive biases, and fast and slow thinking approaches. The study aims to bridge the gap between theoretical safety concepts and practical applications, reinforcing the importance of proactive safety cultures.

Abstract The abstract concisely outlines the study's background, methodology, results, and conclusions. It clearly defines the importance of chronic unease in fostering vigilance and proactive safety measures. The inclusion of cognitive biases and decision-making strategies enhances the relevance of the discussion. The methodological approach is well-summarized, ensuring clarity on the research scope and inclusion criteria.

Plain Language Summary The plain language summary successfully conveys the essence of the study in an accessible manner. It provides a well-structured explanation of chronic unease and its significance in preventing workplace incidents. The connection between cognitive processing, risk perception, and safety management is well-articulated, ensuring that non-specialist readers can grasp the core message.

REVIEWER'S REPORT

Introduction The introduction effectively establishes the significance of safety culture in high-risk industries. It presents chronic unease as a critical factor in maintaining vigilance and preventing safety lapses. The discussion on cognitive processes and decision-making frameworks provides a strong foundation for understanding the broader implications of chronic unease in safety management. The use of advanced technologies and innovative management approaches is well-integrated into the discussion, reinforcing the relevance of the topic.

Methodology The methodology section is well-structured and detailed. The selection of databases (PubMed, Web of Science, and Google Scholar) ensures credibility and comprehensiveness in the literature review. The search terms chosen effectively capture the key aspects of the study. The timeframe (2010–2024) provides an up-to-date perspective on the topic. The screening process for relevant articles is systematically described, demonstrating rigor in the research approach.

Key Findings

- Chronic Unease and Safety Management:** The study effectively highlights chronic unease as a crucial element in proactive safety cultures. The emphasis on continuous vigilance and risk awareness aligns well with the goal of minimizing workplace incidents.
- Cognitive Processes and Decision-Making:** The discussion on fast and slow thinking processes enhances the understanding of how individuals perceive and respond to safety risks. The impact of cognitive biases on decision-making is well-articulated.
- Technological and Managerial Applications:** The review successfully incorporates discussions on leveraging AI, big data analytics, and real-time monitoring systems in enhancing workplace safety. The exploration of safety-focused project management methodologies further reinforces practical applications.
- Future Research Considerations:** The call for further research on the quantification of chronic unease's impact on safety outcomes is well-founded. The discussion on potential drawbacks of sustained vigilance presents a balanced perspective on the subject.

Conclusion The conclusion effectively synthesizes the study's key insights. It reiterates the importance of integrating chronic unease awareness, slow thinking processes, and cognitive bias mitigation strategies to enhance safety performance in high-risk industries. The forward-looking perspective on future research adds depth to the study's contribution to the field.

Final Remarks Overall, the review is well-researched and structured. It effectively integrates theoretical concepts with practical applications, ensuring relevance to safety professionals and industry stakeholders. The systematic approach to literature selection and analysis enhances the credibility of the findings. The study makes a significant contribution to understanding the role of chronic unease in fostering a robust safety culture within high-risk industries.