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| Journal Name: | [**Asian Journal of Case Reports in Medicine and Health**](https://journalajcrmh.com/index.php/AJCRMH) |
| Manuscript Number: | **Ms\_AJCRMH\_138086** |
| Title of the Manuscript: | **Opioid-induced mania in a sickle cell disease patient with major depressive disorder: a case report and literature review** |
| Type of the Article | **Case report** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **Opioids, such as Tramadol and Pethidine, are commonly used for pain management in patients with Sickle Cell Disease (SCD) but can lead to complications like opioid-induced mania, especially when combined with Selective Serotonin Reuptake Inhibitors (SSRIs) like Paroxetine. This case report discusses a 37-year- old female patient with SCD and major depressive disorder who developed manic symptoms after an increase in her antidepressant dosage and opioid misuse. She was diagnosed with bipolar disorder type 1**  **and managed with Aripiprazole after careful monitoring of her opioid use.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **It needs to be retyped.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | To scientifically evaluate a study and determine its publication value, several key factors should be considered. In the case of the study “Opioid-induced mania in a patient with sickle cell disease and major depressive disorder,” the following can be noted:   1. Scientific rigor and methodology:    * Rigorous data analysis: If the study was conducted rigorously using valid scientific methods and the data were well analyzed, this is a plus.    * Use of reliable sources: If the study cited reliable scientific sources and related articles, this indicates its scientific rigor. 2. Innovation and significance:    * New topic: If the study addresses a new studied topic and contributes to a better understanding of the side effects of opioids in patients with SCD and mood disorders, this can increase its publication value.    * Clinical application: If the results of the study can help improve treatment methods or patient management, this is also a plus. 3. **Limitations:**    * **Limited sample size: If the study is limited to a specific case, the results may not be generalizable.**    * **Need for further research: If the study indicates the need for further research, this may indicate its limitations**. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | To find articles similar to the study "Opioid-Induced Mania in a Patient with Sickle Cell Disease and Major Depressive Disorder," you can refer to articles that examine the side effects of opioids, the relationship between painkillers and mood disorders, and pain management in patients with chronic diseases. Below are some examples of similar articles:   1. Opioid-Induced Mania: A Case Report and Review of the Literature    * This article reviews cases of opioid-induced mania and analyzes their possible mechanisms and clinical management. 2. The Relationship Between Opioid Use and Mood Disorders: A Review    * This article examines the relationship between opioid use and mood disorders, including depression and mania, and analyzes the available evidence. 3. Pain Management in Sickle Cell Disease: A Review of Current Practices    * This article reviews pain management practices in patients with sickle cell disease and discusses the |  |

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|  | side effects of pain medications, including opioids.   1. Bipolar Disorder and Pain: A Review of the Literature    * This article reviews the relationship between bipolar disorder and chronic pain and discusses the effects of pain medications on patients‟ mental health. 2. Tramadol-Induced Mania: A Case Report    * This article reviews a specific case of mania induced by tramadol and analyzes the side effects of this medication in patients with mood disorders. 3. Psychiatric Complications of Opioid Use: A Review    * This article reviews the psychiatric complications of opioid use, including depression and mania, and reviews the evidence. 4. Sickle Cell Disease and Mental Health: A Review of the Literature    * This article examines the impact of sickle cell disease on patients' mental health and its relationship to drug treatments.   And, **Pain Management:**  These articles can help to better understand the research topic and strengthen its claims. To access these articles, you can use scientific databases such as   1. 1. Khamooshi F, Doraji-Bonjar S, Akinnawo AS, Ghaznavi H, Salimi-Khorashad AR, and Khamooshi MJ (2023) Dark Classics in Chemical Neuroscience: Comprehensive Study on the Biochemical Mechanisms and Clinical Implications of Opioid Analgesics. Chemical Methodologies 7(12): 964-993. DOI: 10.48309/chemm.2023.414616.1731 2. 2. Khamooshi F, Akinnawo AS, Doraji-Bonjar S, and Modarresi-Alam AR (2024) Mitragynine Chemistry: Extraction, Synthesis, and Clinical Effects. Chemistry Africa. DOI: 10.1007/s42250-024- 00921-6 3. 3. Khamooshi F, Mousavi SM, Doraji-Bonjar S, and Zolfigol M (2022) Anti-HIV Drugs Study: Study of NNRTIs Function and Overview Synthesis of Specific and Rare Aryloxy Tetrazoles Derivatives as NNRTIs and Anti-HIV Drug. Medicon Pharmaceutical Sciences 2(3): 04-10. DOI: https://themedicon.com/pdf/mcps/MCPS-22-034.pdf |  |

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| **Is the language/English quality of the article suitable for scholarly communications?** | Needs revision and retouching. |  |
| **Optional/General** comments | **Research on "Opioid-induced mania in a patient with sickle cell disease and major depressive disorder" has certain importance, advantages and disadvantages, which are as follows:**  **Importance of the research:**   1. **Awareness of drug side effects: This research helps doctors and health professionals to be aware of the serious side effects caused by the simultaneous use of opioids and antidepressants.** 2. **Better patient management: By identifying the risks associated with opioid use in patients with mood disorders, doctors can provide better strategies for managing the pain and mental health of these patients.** 3. **Increasing scientific knowledge: This study adds to the scientific literature on the relationship between opioid drugs and mood disorders and helps future research in this field.**   **Advantages:**   * 1. **Early identification of problems: This research can help in the early identification of mental problems caused by drug use and prevent the occurrence of more serious complications.**   2. **Development of treatment protocols: The results of this study can help develop new treatment protocols and improve pain management methods in patients with SCD.**   3. **Physician education: This study can be used as an educational resource for physicians and nurses in the field of concurrent management of pain and mental disorders.**   **Disadvantages:**   * + 1. **Limitation in sample size: This study is limited to a specific case and its results may not be generalizable.**     2. **Lack of comprehensiveness: Other factors affecting the occurrence of mania in this patient may not have been fully investigated.**     3. **Need for further research: More research is needed in this field to confirm the results and generalize them to larger populations.**   **Overall, this study can be considered an important step in better understanding the side effects of medications and optimal management of patients with SCD and mood disorders, but more research is needed to confirm and generalize its results.** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Ferydoon Khamooshi, University of Zabol, Iran**