

Review Form 1.7

Journal Name:	Journal of Advances in Medicine and Medical Research
Manuscript Number:	Ms_JAMMR_98271
Title of the Manuscript:	Research of Natural Killer Cell (CD56+, CD16+, CD3-) and It's Activating Ligand (CD 112) in Acute Myeloid Leukemia
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljammr.com/index.php/JAMMR/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1.- Yes. The article describes the impact of Natural Killer cells and its activating receptor ligand (CD 112) on AML. This can be considered for the diagnosis and progression of the disease.</p> <p>2. The title is ok.</p> <p>3. The abstract should be improved, especially in the methodology it is necessary to include the method to identify acute leukemia, and flow cytometry.</p> <p>4. Yes, the sections are correct. However, the methodology should be improved considerably, summarizing the diagnosis and flow cytometry, or consider including citations that reference the method. It is recommended to review the articles: Yuta Kaito 2022 https://www.spandidos-publications.com/10.3892/ol.2021.13169 Sara Mastaglio 2018 doi: 10.1182/bloodadvances.2017015230</p> <p>The discussion must also be attended to, since references are missing and it contains many paragraphs that are simple repetition of results. Authors are reminded that the discussion includes a comparison with other works.</p> <p>5. Yes, the article is scientifically correct, and the information is relevant.</p> <p>6. It is recommended to include recent references, since the most recent in this paper is from 2019. However, another from 2022 is already provided to support the flow cytometry technique, in addition to other recent ones that explain the mechanism in NK. Cells and AML (see Yuta Kaito et al. 2022 https://doi.org/10.1182/blood-2022-164435)</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Style editing and English proofreading are recommended after corrections.</p>	
<p>Optional/General comments</p>	<p>It is recommended to review the reference format. Throughout the text there are some before and after dots, there are also some as superscript.</p> <p>On the other hand, there is a lack of reference in the introduction: for... receptors (NCRs) family, regulate NK cell function. for... both of which are inhibiting receptors that control NK cell activity. Under discussion review reference format for ... Aggarwal et al. 11 found that the proportion of NKT cells was lower in AML cases. ...with P value (<0.001). Mastaglio et al., 12</p> <p>and the reference is missing for: In their research, Ferrera and colleagues investigated ...</p> <p>On the other hand, it is necessary to attend to the following: Replace IN with In in IN case of AML, cytotoxicity and cytokine release are diminished. In the discussion, improve the wording of: This work showed the comparison between NK...of cases</p>	

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	<p>and other contributors factors. It also contains paragraphs that are results. You must remember that the discussion is comparison with other works, so it is recommended to delete the following: In the present work, there was non-evident correlation between Hb, Plt, WBC, LDH, Blast (BM) and NK cell expression. On the other hand, there was non-evident correlation between ESR and NK cell expression.</p> <p>Non-evident correlation was observed between Hb, Plt, WBC, LDH, Blast (BM) and CD112 expression. On the other hand, CD112 expression showed non-evident correlation with ESR.</p> <p>Also delete In the current research, using the ROC curve for NK cell ≤ 15.5 was set as cut off and AUC: 0.688 with sensitivity and specificity 70.0% and 65.0% respectively. Also using the ROC curve for CD112 > 18.2 was set as cut off and AUC: 0.929 with sensitivity and specificity 87.5% and 75.0% respectively.</p> <p>Our research showed that cases with complete remission were associated with obviously lower levels of NK cells expression. Furthermore, relapsed and dead cases had evidently higher mean levels of NK cells expression.</p> <p>Data from this research showed that cases with complete remission were associated with obviously higher levels of CD112 expression. Furthermore, relapsed and dead cases had evidently lower mean levels of CD112 expression.</p> <p>Statistical analysis: All the results presented a normal distribution? If so, they can use Student's T, if not, in the case of non-parametric distribution, Mann's U should have been used... Describe in detail. Results. Approve nomenclature for the values of P, since it uses "p" or "P" insistently throughout the writing.</p> <p>Table 1 Why are values included, apparently with minimums and maximums for WBC, Blast%, LDH and ESR? It is recommended that all laboratory values be placed in the same format, or indicate that they represent between (). Include a table or explain how the results are obtained for: There was non-evident correlation between Hb, Plt, WBC, LDH, Blast (BM) and NK cell expression and between ESR and NK cell expression ($P > 0.05$). There was non-evident correlation between Hb, Plt, WBC, LDH, Blast (BM) and CD112 expression between ESR and CD112 expression ($P > 0.05$).</p>	
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PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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