

## Manuscript submitted to Dove Medical Press

1 pesan

**Mrs Whimp** <deidrewhimp@dovepress.com> Balas Ke: Mrs Whimp <deidrewhimp@dovepress.com> Kepada: Dr Listiawan <m.yulianto@fk.unair.ac.id>

17 Juli 2022 19.29

Dear Dr Listiawan,

Thank you for your recent submission to Journal of Multidisciplinary Healthcare, titled "The stress of Leprosy as A Facilitator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in patients with leprosy. A correlation study through the structural equation models" which has been received.

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Many thanks for your submission.

Yours sincerely

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# Manuscript ID number:

382723

## Title of paper:

The stress of Leprosy as A Facilitator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in patients with leprosy. A correlation study through the structural equation models

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• Please confirm in your revised manuscript that your study complies with the Declaration of Helsinki.

If you have any queries regarding the ethic requirements, please view our Frequently Asked Questions: https://www.dovepress.com/cr\_data/ethics-faq-2019.pdf

Yes, this study conforms to the declaration of Helsinki

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#### REVISED

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#### REVISED

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• Abstract Structure: Original research papers require a structured abstract. A structured abstract is an abstract with distinct, labelled sections (e.g., Introduction, Methods, Results, Discussion) for rapid comprehension. Please amend accordingly prior to re-submission.

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• Tables: Please move all tables, their legends and table footnotes to the end of the manuscript following the reference list or to a separate singular word document.

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• Figure Presentation: Currently certain lines of text within Figures 1-2 are cropped and the full letters cannot be read. Please amend so all parts of the letters and text can be read in full, prior to resubmitting.

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• Table Spelling and Grammar: All spelling and grammar should be checked prior to resubmission as the tables supplied at this stage will be the ones sent for publication. (See our website for further information: https://www.dovepress.com/author-guidelines/figures-tables)

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• Figure Legends: Please provide a descriptive header/legend for all included figures. Figure legends must begin with the number of the figure being described (eg "Figure 1:"). Captions should be succinct but descriptive. Please note that the figure legends must not be placed within the figure artwork and should instead be listed at the end of the manuscript file.

## Response Letter:

A Response to Reviewers letter is required upon resubmission.

We require every comment by the reviewers to be addressed by the authors. Please note, if you feel that some of the reviewer comments will not add value to your manuscript, you do not have to make those particular changes. You may instead respond to the comment in your letter, explaining why you do not agree with or have not made the suggested changes.

Please indicate where in your revised manuscript the changes (as applicable) can be seen. The response letter is used by the Editor to make a decision on whether to accept the manuscript, and so it is vital that every comment is responded to.

Please ensure copies of all figures/tables/supplementary material are provided with the revised manuscript, even if these are not altered during the revisions so we can ensure we have the most up to date file for each.

## Reviewer Comments:

## Reviewer 1

## Title & Abstract

1. Do the title and abstract cover the main aspect of the work?

Yes, it is cover the main aspect of the work.

#### 2. Does the introduction provide background and information relevant to the study?

Leprosy is a curable disease and the deformity could be prevented by early detection. On page no 3, the author mentioned that "with leprosy that has spread globally and there is no cure that guarantees that the suffer can be free from disability (2)". Please justify this sentence. REVISED

Actually, reference-2 has been studied with the people affected by reactions due to leprosy. "Scollard DM, Martelli CMT, Stefani MMA, De Fatima Marija M, Villahermosa L, Pardillo F, et al. Risk factors for leprosy reactions in three endemic countries. Am J Trop Med Hyg. 2015;92(1):108–14."

The author has to verify the reference articles and the citations.

#### **REVISED**

It would be good if the author change the word to 'people affected by leprosy or people with leprosy' instead of 'lepers'. We should not negatively label the diseased person, especially the people affected by leprosy. **REVISED** 

Only, the global data about leprosy was presented in the introduction and the data of Indonesia is not shown in the manuscript. It would be good if the author presented the Indonesia data on leprosy disease.

#### **REVISED**

## Material and Methods

3. Are the methods clear and replicable? Do all the results presented match the methods described?

ls appropriate

In the measurement tools: The author does not mention which language version of the instrument was used for the study.

#### REVISED

Whether the measurement tools are available or not in the Indonesian language is not clearly mentioned in the manuscript.

#### REVISED

If the tools are translated, then the author has to detail the validity and reliability of the translated tools.

Validity and reliability tests have been explained in the data analysis process, especially in the evaluation of Outer models

Participants completed all questionnaires as a mode of self-reports. However, there is six participants' level of education that was 'no school', and how these participants fill out the questionnaires. These details should be mentioned in the manuscript. **REVISED** 

## Results

4. If relevant are the results novel? Does the study provide an advance in the field? Is the data plausible? Yes, *it is relevant.* 

## Discussion

5. Do the findings described by the author correlate with the results? Are the findings relevant?

The author has to discuss more the positive psychological intervention specifically for people with leprosy. Yes, we have discussed the effect of exploring coping resources and using effective coping strategies in solving psychological problems due to the stress of leprosy to achieve better psychological wellbeing.

## Conclusion

6. Do the conclusions correlate to the results found?

Yes, it's correlated with results.

## **Figures & Tables**

# 7. If the author has provided figures and tables are the figures and tables clear and legible? Are the figures free from unnecessary modification?

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In reference: References are not cited properly and the journal name is missing. Write properly the decimals in the results Tables.

REVISED

#### 8. Does the paper raise any concerns?

In reference: References are not cited properly and the journal name is missing. Write properly the decimals in the results Tables. **REVISED** 

## Competing interest

9. Do any of the authors' competing interests raise concerns about the validity of the study i.e. have the authors' competing interests created a bias in the reporting of the results and conclusions?

No

## English editing

10. Do you think the manuscript requires English editing to correct the grammar or flow? Yes

## Recommendations to the Editor

## Additional comments

No additional comments

## Reviewer 2

## Title & Abstract

## 1. Do the title and abstract cover the main aspect of the work?

The title is very complicated, which is partly because of the choice of words like 'facilitator' **REVISED** 

## 2. Does the introduction provide background and information relevant to the study?

Yes, it does, but the case for how and to what extent leprosy affects mental wellbeing could be made much more strongly than by just referring to 'stress due to leprosy'. Quite a few recent studies, some of which are cited much later in the paper, could be used for this. This could include prevalence of depression and anxiety, etc.

## Material and Methods

## 3. Are the methods clear and replicable? Do all the results presented match the methods described?

Yes, but the statistical methods used are partly beyond my scope of expertise, so I can only judge this in part.

## Results

4. If relevant are the results novel? Does the study provide an advance in the field? Is the data plausible?

The methods are novel in terms of being applied to the issue of 'leprosy stress' and mental wellbeing. In practice this has already been shown to work practice elsewhere in Indonesia by Lusli et al through their work on rights-based peer counselling of and by persons affected by leprosy (2015; 2016).

For all these reasons, all authors have agreed to use the SEM (Structural Equation Modeling) analysis with Smart-PLS (Partial Least Square) test. And to clarify the data analysis in the SEM (Structural Equation Modeling) analysis with Smart-PLS (Partial Least Square) test, all authors agree to reconstruct the grammatical structure of the test analysis and divide it into 3 important parts, namely

1. Evaluation of Outer Models

2. Evaluation of Inner Models

5. The contribution of the independent variable to the dependent variable

Thus, the table structure has also changed, and we have resubmitted it as part of the table revision

## Discussion

## 5. Do the findings described by the author correlate with the results? Are the findings relevant?

Yes, they do and yes, they are, although the authors make very little attempt to explain the very technical terminology and what this might mean for care of persons affected 'on the ground'.

<mark>Added:</mark>

Thus, positive psychology-based leprosy treatment approaches such as exploring the source of coping and strengthening the use of effective coping strategies in addition to providing leprosy treatment services need to be developed in the future by health service providers such as doctors, nurses, nutritionists, and other health workers, so that they feel comfortable. in undergoing the treatment program to completion to achieve optimal healing

## Conclusion

6. Do the conclusions correlate to the results found?

Yes, they do.

## Figures & Tables

7. If the author has provided figures and tables are the figures and tables clear and legible? Are the figures free from unnecessary modification?

Yes, except for Table 3: this is highly complex, except perhaps for statisticians. The figures are again quite technical in a statistical sense.

The author would like to report that the overall indicator of all variables produces a loading value that is greater than the loading value of other variables. Thus, it can be stated that from the discriminant validity test, each indicator can measure the latent variable/endogenous variable that corresponds to the indicator.

## 8. Does the paper raise any concerns?

Apart from being quite theoretical and technical, the paper does not raise specific concerns, ethical or otherwise. As said above, my statistical competence falls short of being able to judge fully the methods used in this paper.

The reference style is numerical but does not completely follow the JAMA reference style

No concerns regarding similarities to other articles

SEM (Structural Equation Modeling) data processing is a multivariate statistical analysis method. Software for SEM analysis that is often used, namely Smart-PLS is used to test the relationship between variables and is not based on various assumptions, but



the model built is very complex. In addition, the number of samples required in the analysis is relatively small (100 - 200). The data in the smart-PLS analysis does not have to be normally distributed because SmartPLS uses the bootstrap method or random multiplication. And with the bootstrap method, PLS (Partial Least Square) can use a minimal number of samples. SEM data processing is more complicated because SEM is built by a measurement model (outer model) and structural models (inner model). The measurement model is carried out to produce an assessment of the validity and discriminant validity, while the structural model is a model that describes the hypothesized relationship.

Although the data on each variable is the same in other studies, the relationship between variables is different, it will produce discriminant validity values and different hypothesis test values from the PLS test, therefore, even though there are similarities in the data with other research results, the variables tested are different, it will produce different test values. And this research does not resemble other studies, because the relationship between variables is very different, so the introduction, reporting of analysis test results, discussion, and conclusions are also very different.

## Competing interest

9. Do any of the authors' competing interests raise concerns about the validity of the study i.e. have the authors'

competing interests created a bias in the reporting of the results and conclusions?

Not that I can see

## English editing

10. Do you think the manuscript requires English editing to correct the grammar or flow?

## Recommendations to the Editor

## Additional comments

I added continuous line numbering for ease of reference

Abstract

p.2, line 45: 'affect' should be 'cause'?

The meaning of facilitator in this context is not clear – facilitator of what? Or as a 'mitigator' of the problems mentioned? Or 'mediator'?

#### REVISED

Line 47 says: "The scales of " but doesn't which instruments were used. There will be many scales for each aspect mentioned, so giving the actual name is helpful, even in an abstract.

#### REVISED

Line 49/50: The meaning of "The structural equation model was used to test through cross-sectional design" is not clear REVISED

Line 52: the value of 't' that is mentioned; is that not a z-value or F-value. Also, the actual p-value is preferred (so p=0.000) REVISED (The t-test has been removed)

Line 59-61: "As a result, in reducing stress due to leprosy, individuals who have extensive coping resources and various coping strategies can identify ways to overcome them and can reduce stress on leprosy, thereby promoting better psychological well-being." Assuming that this means: 'These results show that in ' This does not point to an application of these results; it would worth rephrasing this in a way that suggests what might be done for people who do not have extensive coping resources and various coping strategies.

## **REVISED**

Introduction Line 66: meaning unclear

#### REVISED

Line 68: the prevalence data are about patients registered for treatment, not about people infected with M. leprae.

Line 79: the term 'leper' is globally blacklisted. 'Person affected by leprosy' is the preferred term.

#### REVISED

Line 99-102: this is no longer true. See for example the studies by Van 't Noordende et al on family quality of life and on resilience, and of Van Dorst et al (2020), Van Netten et al (2021) and Pierneef et al (2022)

#### REVISED

Line 102 and following: the case for how and to what extent leprosy affects mental wellbeing could be made much more strongly than by just referring to 'stress due to leprosy'. Quite a few recent studies, some of which are cited much later in the paper, could be used for this. This could include prevalence of depression and anxiety, etc.

#### We have revised the narration and added the narration

Maybe only "Persons Affected by Leprosy" is shunned by the community even though there are many other chronic infectious diseases, because this disease is seen as a curse, unclean, and a recompense from God for his actions (16). As for him, the burden of depression and anxiety is part of their daily life (17)

Line 105: ref 15 doesn't seem to match

#### REVISED

Line 113: the reference to Somar et al is correct, but suddenly in a different style

We've revised the narrative to:

Persons Affected by Leprosy experience prolonged mental stress, which affects their well-being of them and their families



Line 119: it doesn't become clear in the text which resources are being referred to.

We've improved the narration, and the source has been added:

The source of coping is one of the elements of positive psychology and is an important

instrument that can be proven as a protector in preventing mental stress for chronic diseases

"Panjwani AA, Revenson TA. Coping with Chronic Illness. In: The Wiley Encyclopedia of Health Psychology [Internet]. 1st ed. John Wiley & Sons Ltd; 2020. Available from: file:///C:/Users/ASUS/Downloads/PanjwaniRevenson2020.pdf"

Line 129: meaning not clear, please rephrase

REVISED

Line 139: "As a result" - probably better: 'following this reasoning'?

REVISED

Line 147: "this coping strategy" – not clear which coping strategy is being referred to

We have corrected the narrative, only explaining the narrative above, we do not use the source

Line 157: 'to motivate' should 'which motivate'

#### REVISED

Ref 37 is a duplicate of Ref 39, but the latter has the names in right notation, so 37 should be replaced by the content of 39. REVISED

Ref 38 is a duplicate of Ref 19 and is again duplicated in Ref 66

REVISED

Line 178/79: 'facilitated' should probably be 'mediated'?

REVISED

Methods

Line 185: what patient population were these patients sampled from? How were they sampled? What is the basis for a sample size of 125?

More information on the age distribution and disability status is desirable, since the demographics seem very unlike the general population.

We are aware that the participants in this study were only 125 participants. The number of "Persons Affected by Leprosy" in the Leprosy Poly Room of the "Dr. Sutomo" Hospital was 178 patients in the period March 2021 - June 2022. At first we used "total sampling", but researchers had difficulty reaching it, and finally researchers used "convenience sampling". ". We all realize that this disease is very stigmatizing, so not all participants took part in this study, even as many as 7 participants had signed "informed consent", but on the way, they were not willing to fill out the questionnaire. Some of the participants were < 15 years old, but the age of the participants was is 14 years old, and based on WHO guidelines, the ages of "Persons Affected by Leprosy" are grouped into < 15 years and > 15 years, so that the researcher does not include the age of the participants. In addition, the researchers also do not include the level of disability, because we assume there is or no disability. with disabilities, they have difficulty positioning themselves in society, thus influencing their strategy to undergo a treatment program, and this is in accordance with the direction and purpose of this study which identifies coping resources, coping strategies to ensure their well-being through the stress of leprosy.

Because they already understand reading and writing, we do not accompany, only explain the important points of the contents of the questionnaire, and then they fill it out themselves after they agree to be research participants. We have also helped to clarify some of the contents of the questionnaire that the participants did not understand, so that they understood the purpose of the research instrument items, so that they determined the answer choices that matched what was in their minds. We have also added several important narratives in the manuscript to clarify the research procedures, for example related to the research location, namely the Leprosy Poly Room at the "Dr. Sutomo" Hospital Surabaya, and others Line 201: all questionnaires or per questionnaire?

REVISED

Line 209/11: do these psychometric stats refer to the Bahasa Indonesia version or the Turkish version? How was the translation procedure done to obtain a valid Bahasa version?

The narration has been added

In this study, the researcher developed the psychological well-being scale from CD Ryff in the Indonesian version for data collection. In the process of translating into Indonesian, the researcher has consulted with English grammarians, and they are often used as consultants for the transfer of grammar, from English to Indonesian.

Same question for the other instruments.Ref

49: Title cannot be correct

A scale global measure of perceived stress by the authors Sheldon Cohen, Tom Kamarck and Robin Mermelstein (1983). Journal of Health and Social Behavior Vol. 4, No. 4 (Dec. 1983), pp. 385-396 (12 pages). Published By: American Sociological Association

Researchers deliberately use old sources to show the authenticity of the perceived stress scale

Line 217/20: do these stats refer to the Bahasa version?

The narration has been added

In this study, the researcher developed the perceived stress scale in the Indonesian version for data collection. In the process of translating into Indonesian, the researcher has consulted with English grammarians, and they are often used as consultants for the transfer of grammar, from English to Indonesian.

Line 227/8: same guestion

The narration has been added

In this study, the researcher developed the coping resources inventory for stress in the Indonesian version for data collection. In the process of translating into Indonesian, the researcher has consulted with English grammarians, and they are often used as consultants for the transfer of grammar, from English to Indonesian.

## Line 239/41: same question The narration has been added

In this study, the researcher developed the Coping Strategies Inventory Short-Form (CSI-SF) in the Indonesian version for data collection. . In the process of translating into Indonesian, the researcher has consulted with English grammarians, and they are often used as consultants for the transfer of grammar, from English to Indonesian.

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Line 244/5: descriptive statistics do not normally use correlation analysis, so this statement is not clear.

Line 248/59: I'm not familiar with this procedure, so cannot judge the appropriateness of the various statistics in this context. Same for the data in Table 3

All authors agree that in this study the test analysis used SEM (Structural Equation Modeling) .analysis with SmartPLS (Partial Least Square), the reason that the number of respondents was around 100 respondents and the data used was primary data. The essence of this test is divided into 3 important stages, namely Evaluation of Outer Models, Evaluation of Inner Models, and the contribution of the independent variable to the dependent variable. In the Outer Models Evaluation, the calculated values include the value of the cross-loading factor, the value of reliability, and the validity of the instrument. In the Inner model, the calculated value is the result of hypothesis testing and the value of the contribution of the independent variable, the benchmark is the R-Square value. For all these reasons, all authors agree to reconstruct all tables in detail and revise the structure of the statistical analysis report. The author also does not include any more predictive values. And we have re-sent all of them

Results

Table 2: decimal separators should be periods (.); also 2 decimal places would be enough REVISED

Line 268: why are these means called 'good averages' – what are the reference standards?

Researchers only produce additional data, and indeed all authors agree to omit the information column

Line 269-321: this is outside my field of competence

To clarify the research results report, all authors agree to change the design of the research data report without changing the content of the research results, so that it looks easy to understand by all readers. However, the consequence is that there are several changes that occur in the results of the study, especially in the report on the results of the Structural Equation Modeling analysis, which is divided into 3 reports of analysis results, including Evaluation of Outer Models, Evaluation of Inner Models, and The contribution of the independent variable to the dependent variable. For this reason, the authors also agreed to change the table, where in the Evaluation of Outer Models there are 2 tables, namely Value of loading and cross loading and Construct reliability and validity. in The contribution of the independent variable to the dependent variable to the dependent variable to the dependent variable there is 1 table, and The contribution of the independent variable to the dependent variable there is 1 table. And in full, we have re-sent a new table with a research report.

Discussion

Line 350/1: from the analysis is seems that stress due to leprosy is either used as an outcome (dependent variable) or as a determinant of psychological wellbeing. It is not clear why the authors call 'leprosy stress' a facilitator in the relationship between the other 3 constructs.

The narration has been added:

Because leprosy stress can change psychological well-being and has a close relationship with coping resources and coping strategies to be chosen, while coping resources and coping strategies are always related to psychological well-being, in this study researchers examine the relationship between coping resources, coping strategies, and psychological well-being, through the stress of leprosy

Line 252/5: this relates to Figures 1 and 2. It is clear why and how coping resources and strategies are related to leprosy stress and why all 3 are related to psychological wellbeing, but not why this makes leprosy stress a facilitator or mediator. Perhaps the results should be explained a bit differently. The figures show 3 pathways to improve psychological wellbeing. Two are direct effects of coping resources and strategies; the third is via leprosy stress, which can also be positively influenced by coping resources and strategies. It is evident that this is true, but there are of course many other factors that affect the stress level due to leprosy that have not been included in this study; leprosy-related stigma being one of the main factors.

We strongly agree with his opinion, after we revised the text, globally the narratives in the introduction, method, discussion and conclusion have described the four relationships between variable

Line 368: It would be good if the authors would elaborate here on what coping resources may be for persons affected by leprosy. In this way the results become more practically applicable.

#### The narration has been added

Confidence to recover from illness, increased ability and willingness to interact with other people and the environment, strong personality, high self-confidence, and a strong desire to solve problems are forms of coping resources that exist in every individual and can use to solve problems through the selection of effective coping strategies, and this is also what "Persons Affected by Leprosy" must do to maintain their well-being

Line 371: see comment above regarding the term 'facilitate'

Line 387/95: I suspect that having a social network and peer support are part of possible coping resources. If so, the findings from this study confirm what was shown to work in practice elsewhere in Indonesia by Lusli et al through their work on rightsbased peer counselling of and by persons affected by leprosy (2015; 2016).

The narration has been added

And the findings of this study, have confirmed what has been proven successful in practice elsewhere in Indonesia by Lusli et al through their work on rights-based peer counseling from and by people who have experienced leprosy Line 398/9: This needs to be rephrased

REVISED





## **Dove Medical Press: Submission accepted for publication**

2 pesan

**Ms Sandi McIver** <sandi@dovepress.com> Balas Ke: Ms Sandi McIver <sandi@dovepress.com> Kepada: Dr Listiawan <m.yulianto@fk.unair.ac.id> 9 September 2022 06.46

Dear Dr Listiawan,

I am pleased to inform you that your manuscript "The stress of Leprosy as A Mediator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in Persons Affected by Leprosy. The Structural Equation Models Through a Correlation Study" has been accepted for publication in "Journal of Multidisciplinary Healthcare".

The article publishing charge of USD 1418 is now payable and an invoice for this amount has been sent to Abd.Nasir.

If you have any questions about your paper please contact me at any time sandi@dovepress.com

Yours sincerely

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**Ms Sandi McIver** <sandi@dovepress.com> Balas Ke: Ms Sandi McIver <sandi@dovepress.com> Kepada: Dr Listiawan <m.yulianto@fk.unair.ac.id> 9 September 2022 06.46

Dear Dr Listiawan,

I am pleased to inform you that your manuscript "The stress of Leprosy as A Mediator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in Persons Affected by Leprosy. The Structural Equation Models Through a Correlation Study" has been accepted for publication in "Journal of Multidisciplinary Healthcare".

The article publishing charge of USD 1418 is now payable and an invoice for this amount has been sent to Abd.Nasir.

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Abd.nasir Abd.nasir <abdoel.nasir@vokasi.unair.ac.id>

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Dear Abd.Nasir,

I am pleased to inform you that the submission, "The stress of Leprosy as A Mediator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in Persons Affected by Leprosy. The Structural Equation Models Through a Correlation Study", has been accepted for publication in "Journal of Multidisciplinary Healthcare". The article publishing charge is now payable before the paper can be progressed any further and an invoice is accessible here: https://www.dovepress.com/invoice.php?i\_key=EjgEh0bU2k3jN1BNiYT8WfU261592 (If you require any amendments to your invoice please reply to this email. Please note invoices cannot be amended once a payment has been made)

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Dear Mr Nasir,

I am pleased to inform you that your manuscript "The stress of Leprosy as A Mediator of The Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in Persons Affected by Leprosy. The Structural Equation Models Through a Correlation Study" has been accepted for publication in "Journal of Multidisciplinary Healthcare".

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I would like to take this opportunity to personally thank you for your contribution to Journal of Multidisciplinary Healthcare. It was a pleasure working with you and I hope we can do so again in the near future.

Yours sincerely

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