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Submission

Authors	Andi Asmawati Azis, Aswi Aswi
Title	Spatial clustering of stunting cases in Indonesia: A Bayesian approach
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Submission Metadata

Authors

Name	Andi Asmawati Azis
Affiliation	Biology Department Makassar State University
Country	—

Bio statement —
Name Aswi Aswi 
Affiliation Statistics Department, Makassar State University
Country Indonesia
Bio statement —
Principal contact for editorial correspondence.

Title and Abstract

Title Spatial clustering of stunting cases in Indonesia: A Bayesian approach
Abstract Stunting is one of the major public health problems, especially in developing countries such as Indonesia. In the Southeast Asian region, Indonesia has the third highest prevalence with an average prevalence of 36.4% (2005-2017). Indonesian Nutritional Status Study (SSGI) in 2021 stated that the percentage of stunting in Indonesia is 24.4%. Research on spatial modelling of stunting has been done, but the use of the Bayesian spatial Conditional Autoregressive (CAR) model is still rare. This article aims to provide the most appropriate Bayesian spatial CAR localised (clustering) model and identify the relative risk (RR) of stunting in each province in Indonesia. Data on the number of toddlers 0-59 months whose height is measured and the number of stunted toddlers in each province in Indonesia in 2021 were used. The best model is based on the Deviance Information Criterion, Watanabe Akaike Information Criterion and Modified Moran's I value for residuals. The results indicated that the Bayesian spatial CAR Localised with hyperprior Inverse-Gamma (0.5, 0.05) and Inverse-Gamma (1, 0.1) are preferred for two and three clusters, respectively. Our results identified the high-risk areas for stunting. Approximately 56% of provinces in Indonesia are at a high risk of stunting. Sulawesi Barat has the highest RR for stunting followed by Nusa Tenggara Timur dan Papua Barat. In contrast, Jakarta has the lowest RR of stunting followed by Sulawesi Utara and Sumatera Selatan. Government should pay more attention to areas that are most at high risk of stunting.

Indexing

Language —

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ASWI UNM <aswi@unm.ac.id>

[cmbn] Submission Acknowledgement

1 message

CMBN Editorial Office <cmbn@mail.scik.org>

30 January 2023 at 22:55

To: Aswi Aswi <aswi@unm.ac.id>

Dear Prof. Aswi Aswi:

Thank you for submitting the manuscript, "Spatial Clustering of Stunting Cases in Indonesia: A Bayesian Approach" to Communications in Mathematical Biology and Neuroscience. With the online journal management system that we are using, you will be able to track its progress through the editorial process by logging in to the journal web site:

Manuscript URL: <https://scik.org/index.php/cmbn/author/submission/7898>

Username: aswi1977

If you have any questions, please contact me. Thank you for considering this journal as a venue for your work.

CMBN Editorial Office
Commun. Math. Biol. Neurosci.

Communications in Mathematical Biology and Neuroscience
<http://scik.org/index.php/cmbn>



ASWI UNM <aswi@unm.ac.id>

[cmbn] Editor Decision #7898

11 messages

CMBN Editorial Office <cmbn@scik.org>

21 February 2023 at 19:43

To: aswi <aswi@unm.ac.id>

Dear Aswi Aswi:

Following the review of your Research Article titled "Spatial Clustering of Stunting Cases in Indonesia: A Bayesian Approach", I am delighted to inform you that your manuscript is now officially accepted for publication in Communications in Mathematical Biology and Neuroscience (CMBN).

Please download the template of CMBN at

<http://scik.org/index.php/cmbn/pages/view/templates>

and send the source (.tex or .docx) files of your final version within one week, to the following email address:

cmbn@scik.org

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Please let us know if you would like to use a different method of payment.

Your prompt action would be appreciated. Thank you for submitting your work to CMBN.

Best regards,

Bruce Young
Managing editor
SCIK Publishing Corporation
cmbn@scik.org

ASWI UNM <aswi@unm.ac.id>

27 February 2023 at 16:20

To: CMBN Editorial Office <cmbn@scik.org>

Dear
Bruce Young
Managing editor
SCIK Publishing Corporation,

Thank you very much for your information.
Regarding the payment method, is it possible to pay via BANK transfer?

Thank you very much and I look forward to your reply.

Best Regards,

ASWI
[Quoted text hidden]

CMBN Editorial Office <cmbn@scik.org>
To: ASWI UNM <aswi@unm.ac.id>

28 February 2023 at 18:28

Dear Aswi,

This is to confirm the receipt of the source files. Please find the attached invoice with bank details.
Note: 1. The payment should be made in Euros (**EUR €285**). This account does not accept USD.
2. The account name: **Ly Article Services Studio**

Sincerely,
Bruce Young
Editorial Office
SCIK Publishing Corporation
<http://scik.org>

----- Original -----

From: "ASWI UNM" <aswi@unm.ac.id>;
Date: Mon, Feb 27, 2023 04:20 PM
To: "CMBN Editorial Office" <cmbn@scik.org>;
Subject: Re: [cmbn] Editor Decision #7898

[Quoted text hidden]

CMBN Editorial Office <cmbn@scik.org>
To: ASWI UNM <aswi@unm.ac.id>

28 February 2023 at 18:30

[Quoted text hidden]

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348K

CMBN Editorial Office <cmbn@scik.org>
To: ASWI UNM <aswi@unm.ac.id>

3 March 2023 at 19:31

Dear Aswi,

This is to confirm the receipt of your payment. A PDF file of the galley-proofs will be sent via email to you for proofreading.

Sincerely,

Bruce Young

Editorial Office

SCIK Publishing Corporation

<http://scik.org>

----- Original -----

From: "ASWI UNM" <aswi@unm.ac.id>;
Date: Mon, Feb 27, 2023 04:20 PM
To: "CMBN Editorial Office" <cmbn@scik.org>;
Subject: Re: [cmbn] Editor Decision #7898

[Quoted text hidden]

CMBN Editorial Office <cmbn@scik.org>
To: ASWI UNM <aswi@unm.ac.id>

9 March 2023 at 22:02

Dear Aswi,

Please find the attached galley-proofs of your accepted manuscript. Please check it and send us your corrections (preferable as a list, indicating the pages, line numbers) within one week.

Please ensure that the following important items are correct (this is the last chance to make changes to your paper):

title of your paper; names of all authors; addresses and postcodes; e-mail address of corresponding author; funding (if any); equations.

Please also send us a confirmation email if no corrections are needed.

Sincerely,

Bruce Young

Editorial Office

SCIK Publishing Corporation

<http://scik.org>

----- Original -----

From: "CMBN Editorial Office" <cmbn@scik.org>;

Date: Fri, Mar 3, 2023 07:31 PM

To: "ASWI UNM" <aswi@unm.ac.id>;

[Quoted text hidden]

[Quoted text hidden]

 **CMBN-7898.pdf**
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ASWI UNM <aswi@unm.ac.id>

11 March 2023 at 07:04

To: CMBN Editorial Office <cmbn@scik.org>

Dear

[Quoted text hidden]

ASWI UNM <aswi@unm.ac.id>

11 March 2023 at 07:08

To: CMBN Editorial Office <cmbn@scik.org>

Dear

Bruce Young

Editorial Office

SCIK Publishing Corporation,

Thank you very much for your email.

Please find the attached file of the revised manuscript as well as the explanation that needs to be revised.

Thank you very much and I look forward to your reply.

Best Regards,

ASWI

[Quoted text hidden]

2 attachments



Some Points need to be revised.docx

19K



11 March 2023_Final Version_Spatial Clustering od stunting cases in Indonesia.docx

287K

CMBN Editorial Office <cmbn@scik.org>

To: ASWI UNM <aswi@unm.ac.id>

13 March 2023 at 18:07

Dear Aswi,

Please confirm the attached final version. Note that the font size of references is designed to be smaller.

Sincerely,

Bruce Young

Editorial Office

SCIK Publishing Corporation

<http://scik.org>

----- Original -----

From: "ASWI UNM" <aswi@unm.ac.id>;
Date: Sat, Mar 11, 2023 07:08 AM
[Quoted text hidden]

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ASWI UNM <aswi@unm.ac.id>
To: CMBN Editorial Office <cmbn@scik.org>

14 March 2023 at 05:45

Dear
Bruce Young
Editorial Office
SCIK Publishing Corporation,

The attached final version is correct.

Thank you very much.

Best Regards,

ASWI
[Quoted text hidden]

CMBN Editorial Office <cmbn@scik.org>
To: ASWI UNM <aswi@unm.ac.id>

14 March 2023 at 19:29

Dear Aswi,
Thank you for your response. Your paper will be published soon.

Sincerely,

6/22/23, 5:45 PM

Universitas Negeri Makassar Mail - [cmbn] Editor Decision #7898

Bruce Young

Editorial Office

SCIK Publishing Corporation

<http://scik.org>

----- Original -----

From: "ASWI UNM" <aswi@unm.ac.id>;

Date: Tue, Mar 14, 2023 05:45 AM

[Quoted text hidden]

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