


ISSN 1644-0757
eISSN 2450-047X

S
C
I
E
N
T
I
A
R
U
M
P
O
L
O
N
O
R
U
M



ACTA

Oeconomia

20 (1) 2021

ISSN 1644-0757
eISSN 2450-047X

ACTA SCIENTIARUM POLONORUM

Czasopismo naukowe założone w 2001 roku przez polskie uczelnie rolnicze
Scientific Journal established in 2001 by Polish Life Sciences Universities

Oeconomia

Economics

Ekonomia

20 (1) 2021



Bydgoszcz Kraków Lublin Olsztyn
Poznań Siedlce Szczecin Warszawa Wrocław

Acta Scientiarum Polonorum Programming Board

Józef Bieniek (Kraków), Barbara Gąsiorowska (Siedlce), Kazimierz Banasik (Warsaw),
Janusz Prusiński (Bydgoszcz) – chairman, Julita Reguła (Poznań),
Wiesław Skrzypczak (Szczecin), Jerzy Sobota (Wrocław),
Krzysztof Szkucik (Lublin), Ryszard Żróbek (Olsztyn)

Oeconomia Scientific Board

Marta Barna (Lviv University of Trade and Economics, Lviv, UA),
Henrietta Nagy (Szent Istvan University, Gödöllő, HU),
Roman Kisiel (University of Warmia and Mazury, Olsztyn, PL),
Joseph Andrew Kuzilwa (Mzumbe University, Morogoro, TZ),
Luboš Smutka (Czech University of Life Sciences, Prague, CZ),
Wiesław Musiał (University of Agriculture in Krakow, Kraków, PL),
Janina Sawicka (Warsaw University of Life Sciences – SGGW, Warsaw, PL) – chairperson,
Harun Uçak (Alanya Alaaddin Keykubat University, Alanya, TR),
Andra Zvirbule-Bērziņa (Latvia University of Agriculture, Jelgava, LV)

Editing committee

Jan Kiryjow – Warsaw University of Life Sciences Press,
Iwona Pomianek – Warsaw University of Life Sciences – SGGW, Warsaw – vice-chairperson,
Marcin Chciałowski – WULS-SGGW, Warsaw – *Oeconomia* secretary,
Renata Marks-Bielska – University of Warmia and Mazury, Olsztyn – thematic editor,
Łukasz Satoła – University of Agriculture in Krakow, Kraków – thematic editor,
Anna Milewska – WULS-SGGW, Warsaw – thematic editor,
Halina Powęska – WULS-SGGW, Warsaw – thematic editor,
Joanna Rakowska – WULS-SGGW, Warsaw – thematic editor,
Paulina Stolarczyk – WULS-SGGW, Warsaw – thematic editor,
Paulina Trębska – WULS-SGGW, Warsaw – thematic editor,
Mariola Chrzanowska – WULS-SGGW, Warsaw – statistical editor,
Jacqueline Lescott – Tranchant Consulting Group LLC – language consultant

***The printed version of Acta Scientiarum Polonorum Oeconomia
is an initial version of the journal***

Editorial staff

Anna Dołomisiewicz, Elżbieta Wojnarowska

ISSN 1644-0757
eISSN 2450-047X

© Copyright by Warsaw University of Life Sciences Press



Warsaw University of Life Sciences Press, Nowoursynowska 166, 02-787 Warsaw
tel. (22) 593 55 20 (-22; -25 – sales)
e-mail: wydawnictwo@sggw.pl
www.wydawnictwosggw.pl

Print: ZAPOL sp.j., al. Piastów 42, 71-062 Szczecin

From the Scientific Board

There has been the nineteenth year of the Acta Scientiarum Polonorum Oeconomia publishing. The Acta is the periodical including several thematic series with uniform graphics and similar format. The publication was set up by group of enthusiasts – employees of life sciences universities and has been published under the patronage of rectors of these universities. Constant involvement of academic society in increasing substantive and editorial level of the series, with efforts of the authors, the Programming Board and the Scientific Boards, has contributed to placing the Acta Scientiarum Polonorum (and our Oeconomia series) on the noticeable position in academic research society. Articles can be prepared in English with Polish title, abstract and keywords. Moreover, we publish latest issues in English only. The Scientific Board of the Oeconomia series, concerning the publication range, focuses its attention both on substantive content and precision of the form. The articles are revised in “double-blind review” process. Whole content of the Acta Scientiarum Polonorum Oeconomia is available in electronic version on the following websites acta_oeconomia.sggw.pl and www.oeconomia.actapol.net. We are glad to inform that Acta Scientiarum Polonorum Oeconomia are indexed within the AGRIS-FAO, EBSCO, SIGŻ, Copernicus Index, Central and Eastern European Online Library, AGRO, BazEkon, POL-index.

*Please send papers using the publishing system via the link below:
<https://js.wne.sggw.pl>*

*Yours sincerely
Janina Sawicka
Chairperson of the Scientific Board
of the Acta Sci. Pol. Oeconomia series*

LIST OF REVIEWERS 2020

Kseniia Baimakova (Russia)
Rafał Balina (Poland)
Marta Barna (Ukraine)
Aleh Bakhur (Belarus)
Ewa Bąk-Filipek (Poland)
Aneta Beldycka-Bórawska (Poland)
Joanna Bereźnicka (Poland)
Wioletta Bieńkowska-Gołasa (Poland)
Krzysztof Błoński (Poland)
Abdulmajid Bobokhonov (Spain)
Katarzyna Boratyńska (Poland)
Anila Boshnjaku (Albania)
Piotr Bórawski (Poland)
Mirosława Braja (Poland)
Horst Brezinski (Germany)
Katarzyna Brodzińska (Poland)
Heorhii Cherevko (Ukraine)
Mariola Chrzanowska (Poland)
Piotr Cyrek (Poland)
Katarzyna Czech (Poland)
Marta Czekał (Poland)
Nadiia Davydenko (Ukraine)
Nina Drejerska (Poland)
Bogdan Drózd (Poland)
Baseer Durrani (United Kingdom)
Justyna Franc-Dąbrowska (Poland)
Barbara Freytag-Leyer (Germany)
Agnieszka Gehringer (Germany)
Monika Gębska (Poland)
Łukasz Gębski (Poland)
Piotr Gołasa (Poland)
Emilia Gosińska (Poland)
Aleksandra Górecka (Poland)
Hanna Górska-Warszewicz (Poland)
Kinga Gruzziel (Poland)
Mariusz Hamulczuk (Poland)
Juris Hazners (Latvia)
Marcin Idzik (Poland)
Mikołaj Jalinik (Poland)
Anna Jasiulewicz (Poland)
Jacek Jaworski (Poland)
Marzena Kacprzak (Poland)
Sławomir Kalinowski (Poland)
Ana Kapaj (Albania)
Ryszard Kata (Poland)
Oksana Kiforenko (Ukraine)
Marina Klačmer Čalopa (Croatia)
Anna Kłoczko-Gajewska (Poland)
Volodymyr Kolodiichuka (Ukraine)
Stanislava Kontsevaya (Russia)
Pavel Kotyza (Czech Republic)
Andrzej Kowalski (Poland)
Sylwester Kozak (Poland)
Barbara Kutkowska (Poland)
Susanna O. Kytaiewa (Ukraine)
Joanna Landmesser (Poland)
Marzena Lemanowicz (Poland)
Radim Lenort (Poland)
Natalija Lepkova (Lithuania)
Wojciech Lichota (Poland)
Manuela Meçe (Albania)
Ktut Silvanita Mangani (Indonesia)
Uliana Marchuk (Ukraine)
Renata Marks-Bielska (Poland)
Mariusz Matyka (Poland)
Ludwik Mazurkiewicz (Poland)
Magdalena Mądra-Sawicka (Poland)
Aneta Mikuła (Poland)
Anna Milewska (Poland)
Etleva Muça (Dashi) (Albania)
Balázs Nagy (Hungary)
Robert Nowacki (Poland)
Dan Ophir (Israel)
Mykola Orlykovskiy (Poland)
Irena Ozimek (Poland)
Joanna Paliszkiwicz (Poland)
Johana Paluchová (Slovakia)
Maria Parlińska (Poland)
Agnieszka Parlińska (Poland)
Tomasz Pawlonka (Poland)
Mariya Peneva (Bulgaria)
Józef Jan Pfaff (Poland)
Anna Piotrowska (Poland)
Jose Ramos Pires (Portugal)
Iwona Pomianek (Poland)
Mufutau Popoola (Nigeria)
Halina Powęska (Poland)
Bogusław Pytlik (Poland)
Ewelina Rabiej (Poland)
Małgorzata Raczkowska (Poland)
Razaq Raj (United Kingdom)
Joanna Rakowska (Poland)
Tomasz Rokicki (Poland)
Michał Roman (Poland)
Rasa Rukuiziene (Lithuania)
Vitaliy Rybchak (Ukraine)
Roman Sass (Poland)
Łukasz Satoła (Poland)
Tamara Selisheva (Russia)
Aldona Skarzyńska (Poland)
Stefan Smoczyński (Poland)
Luboš Smutka (Czech Republic)
Wioleta Sobczak (Poland)
Grzegorz Sobiecki (Poland)
Christoph Sowada (Poland)
Ewa Stawicka (Poland)
Paulina Stolarczyk (Poland)
Dariusz Strzębicki (Poland)
Joanna Szwacka-Mokrzycka (Poland)
Josu Takala (Finland)
Vojtech Tamas (Czech Republic)
Ágnes Treutz (Hungary)
Paulina Trębska (Poland)
Jonathan Tuthil (USA)
Harun Ucak (Turkey)
Magdalena Ulrichs (Poland)
Monika Utzig (Poland)
Mirosław Wasilewski (Poland)
Agnieszka Werenowska (Poland)
Izabela Wielewska (Poland)
Marek Wigier (Poland)
Agnieszka Wojewódzka-Wiewiórska (Poland)
Barbara Wyrzykowska (Poland)
Srđan Vujicic (Croatia)
Simonida Vukadinovic (Serbia)
Tomasz Zalega (Poland)
Oksana Zamora (Ukraine)
Jan Zawadka (Poland)
Aldona Zawajska (Poland)
Magdalena Ziolo (Poland)
Dorota Żebrowska-Suchodolska (Poland)
Jan Žukovskis (Lithuania)

INSTRUCTIONS TO AUTHORS

The journal *Acta Scientiarum Polonorum Oeconomia* features original scientific articles related to all aspects of economy, for example: food economy, European consumer goods market, sustainable regional development, development of culture environment, post crises political and social processes, human and social capital, labour market – gender perspective, public finances, rural development and entrepreneurship, social and innovative entrepreneurship, tourist economy.

General and technical requirements for the elaboration of papers:

1. **Size of the research paper** including tables, figures and photographs should not exceed 12 pages of A-4 format.
2. **Materials to be published** in *Acta Sci. Pol.* should be prepared in accordance with the rules of the publishing process binding at the publishing office of a given series of the Journal.
3. **Style of documents** – the text of the paper should be typed with TNR font 12 points, 1 1/2 of space between the lines, setting parts of the text in special typeface is allowed, e.g. italic or bold, but without underlining letters, words and sentences.
4. **Size of tables and figures** cannot exceed B-5 format (12.5 × 19.5 cm); descriptions of tables should be typed with TNR font 9 points, content of tables 8 points, single space, if possible without vertical lines, table format – doc. or rtf.

The following paper setting is binding:

1. **Title of the article** in Polish (or in English if the whole paper is in English; the same refers to the summary and key words).
2. **First name and surname** of the author (-s).
3. **Affiliation.**
4. **Paper abstract** (600–1000 characters).
5. **Key words** – up to 6 words useful when indexing and searching, from general to detail.
6. **The main text** of the research paper should include: introduction with the aim and research hypothesis, material and methods, results, discussion, conclusions (or summary) and references.
7. **Title, abstract** (600–1000 characters) as a translation of the summary and **key words** in English.
8. **Address** of the author's (authors') place of work – post and e-mail address.

Titles of tables and their content, and captions of figures and legends must be provided in English, while the numbers of tables and figures – with Arabic numerals.

Units and spelling – the international SI system is binding, e.g. $\text{g}\cdot\text{dm}^{-3}$ (and not g/dm^3).

References – when referring to the publications of other authors in the text of the paper, a surname and a year should be provided in brackets [Kowalski and Lewandowski 2000, Lewandowski 2001, Zalewski et al. 2001] or ...according to Kowalski [2000]...

The list of references should be presented in the alphabetical order in the following way: author's (authors') surname, initials of first names; year of publishing if there is more than one paper of the same author published in a given year, after the year it is necessary to mark particular items a, b, c etc.; title of the paper, bibliographical abbreviation of the publishing house and place of publishing, numbers of volume, issue of periodic, book series, and pages, e.g.:

Chelkowski, Z. (1966). Introdukcja troci do rzeki Gowienicy. (Introduction of brown trout into the Gowienica river). *Gosp. Ryb.*, 1(2), 18–19.

Greń, J., Kowalski, Z. (1972). *Statystyka matematyczna*. (Mathematical statistics). PWN, Warszawa.

Pisulewski, P., Strzetelski, J., Antoniewicz, A. (2009). Podstawowe założenia IZ PIB-INRA norm żywienia przeżuwaczy (Basic objectives of nutritional standards for ruminants of the IZ PIB-INRA). [In:] J. Strzetelski (Ed.), *IZ PIB-INRA. Normy żywienia przeżuwaczy. Wartość pokarmowa francuskich i krajowych pasz dla przeżuwaczy*. Wyd. IZ PIB, Kraków, 11–20.

Patkowska, E., Konopiński, M. (2008a). Pathogenicity of selected soil-borne microorganisms for scorzonera seedlings (*Scorzonera hispanica* L.). *Folia Horticul.*, 20(1), 31–42.

Patkowska, E., Konopiński, M. (2008b). Pathogenicity of selected soil-borne fungi for seedlings of root chicory (*Cichorium intybus* L. var. *sativum* Bisch.). *Veg. Crops Res. Bull.*, 69, 81–92.

Turski, W. (1972). Projektowanie oprogramowania systemów liczących. (Software design of computing systems). *Mat. konf. Projektowanie maszyn i systemów cyfrowych*. Warszawa 2–5 czerwca 1971. PWN, Warszawa, 132–139.

The author sends the text of the paper in 2 copies to the editorial office. After he/she receives a review, the author sends an editorial copy to the editorial office including the reviewer's comments, a corrected copy of the paper including an electronic carrier (diskette, CD or e-mail) and a response to the reviewer's and editor's comments. The main part of the publication (abstract, the text of the article proper and references) should be saved in one file. The editorial office reserves a right to make cuts and corrections, and to suggest changes and substantive supplementations agreed with the author. The graphic material (figures, diagrams, charts) should be prepared and sent as a separate electronic file (source files) made in programs working in Windows environment (e.g. in Excel, Corel Draw, Photoshop etc.).

The author of the paper published is obliged to transfer his/her copyright to the publisher and submit a declaration that the paper has not been published in another journal.

The authors of the papers participate in the costs of their publishing. Information about fees and additional information for authors are available at the websites:

www.oeconomia.actapol.net
www.acta_oeconomia.sggw.pl

WSKAZÓWKI DLA AUTORÓW

Na łamach *Acta Scientiarum Polonorum* zamieszczane są oryginalne prace naukowe. Wszystkie prace są recenzowane przez specjalistów spoza jednostki macierzystej autorów z zachowaniem zasady wzajemnej anonimowości, tzw. double-blind review process. Prace proponowane do druku w poszczególnych seriach należy przysyłać na adres odpowiednich wydawnictw uczelnianych lub na adresy ze stron internetowych poszczególnych serii.

Wymogi ogólne i techniczne przygotowania prac:

1. **Objętość pracy** wraz z tabelami, rysunkami i fotografiami nie powinna przekraczać 12 stron formatu A-4.
2. **Materiały do publikacji** w *Acta Sci. Pol.* powinny być przygotowane zgodnie z zasadami procesu wydawniczego obowiązującego w redakcji danej serii.
3. **Styl dokumentów** – tekst pracy należy pisać czcionką typu TNR 12 pkt, 1 1/2 odstępu między wierszami, dopuszcza się stosowanie wyróżnień w tekście, np. kursywę i pogrubienie tekstu, ale bez podkreślania liter, wyrazów i zdań.
4. **Wielkość tabel i rysunków** nie może przekraczać formatu B-5 (12,5 × 19,5 cm); rozszerzenie tabel – doc. lub rtf.

Obowiązuje następujący układ pracy:

1. **Tytuł artykułu** w języku polskim (lub angielskim, jeżeli cała praca jest w języku angielskim; to samo dotyczy streszczenia i słów kluczowych).
2. **Imię i nazwisko** autora (-ów).
3. **Afiliacja** wszystkich autorów.
4. **Streszczenie strukturalne** pracy (600–1000 znaków).
5. **Słowa kluczowe** – do 6 słów pomocnych przy indeksacji i wyszukiwaniu, układ (od ogólnych do szczegółowych).
6. **Tekst główny** pracy naukowej powinien obejmować: wstęp z celami i hipotezami badawczymi, materiał i metody, wyniki, dyskusję, wnioski (lub podsumowanie) i piśmiennictwo.
7. **Tytuł, abstract** (600–1000 znaków) jako tłumaczenie streszczenia i słowa kluczowe w języku angielskim (lub polskim, jeśli cała praca jest w języku angielskim).
8. **Adres do korespondencji** – pocztowy i internetowy.

Tytuły tabel oraz ich treść, a także podpisy rysunków i legendy muszą być podane w języku polskim i angielskim, a numery tabel i rysunków – cyframi arabskimi.

Jednostki i pisownia – obowiązuje międzynarodowy układ SI, a jednostki powinny być zapisane np: g·dm⁻³ (a nie g/dm³).

Piśmiennictwo – przy powoływaniu się w tekście pracy na publikacje innych autorów podajemy w nawiasie nazwisko i rok, w układzie chronologicznym [Kowalski i Lewandowski 2000, Lewandowski 2001, Zalewski i in. 2001] lub ...zdaniami Kowalskiego [2000].

Wykaz piśmiennictwa należy zestawić w porządku alfabetycznym. Gdy w danym roku jest wydanych więcej prac tego samego autora, po roku należy oznaczyć poszczególne pozycje a, b, c itd., np.:

Chelkowski, Z. (1966). Introdukcja troci do rzeki Gowienicy. *Gosp. Ryb.*, 1(2), 18–19.

Greń, J., Kowalski, Z. (1972). *Statystyka matematyczna*. PWN, Warszawa.

Pisulewski, P., Strzetelski, J., Antoniewicz, A. (2009). Podstawowe założenia IZ PIB-INRA norm żywienia przeżuwaczy. [W:] J. Strzetelski (red.), *IZ PIB-INRA. Normy żywienia przeżuwaczy. Wartość pokarmowa francuskich i krajowych pasz dla przeżuwaczy*. Wyd. IZ PIB, Kraków, 11–20.

Patkowska, E., Konopiński, M. (2008a). Pathogenicity of selected soil-borne microorganisms for scorzonera seedlings (*Scorzonera hispanica* L.). *Folia Horticult.*, 20(1), 31–42.

Patkowska, E., Konopiński, M. (2008b). Pathogenicity of selected soil-borne fungi for seedlings of root chicory (*Cichorium intybus* L. var. *sativum* Bisch.). *Veg. Crops Res. Bull.*, 69, 81–92.

Turski, W. (1972). Projektowanie oprogramowania systemów liczących. *Mat. konf. Projektowanie maszyn i systemów cyfrowych*. Warszawa 2–5 czerwca 1971. PWN, Warszawa, 132–139.

Autor przesyła do redakcji tekst pracy w 2 egzemplarzach. Po otrzymaniu recenzji Autor przesyła do redakcji egzemplarz redakcyjny z uwagami recenzenta, poprawiony egzemplarz pracy wraz z nośnikiem elektronicznym (dyskietka, CD lub e-mail) i ustosunkowaniem się do uwag recenzenta i redaktora. Część główną publikacji (streszczenie, właściwy tekst artykułu oraz piśmiennictwo) należy zapisać w jednym pliku. Tabele, rysunki i inne załączniki winny być włączone do tego pliku i dodatkowo znaleźć się w oddzielnych plikach. Redakcja zastrzega sobie prawo dokonywania skrótów i poprawek, a także proponowania zmian i uzupełnień merytorycznych uzgodnionych z autorem. Materiał graficzny (rysunki, schematy, wykresy) powinien być opracowany i przysłany jako osobny zapis elektroniczny (pliki źródłowe) w programach pracujących w środowisku Windows (np. w programach Excel, Corel Draw, Photoshop itp.).

Autor publikowanej pracy zobowiązany jest przenieść swe prawa autorskie na wydawcę i złożyć oświadczenie, że praca nie była publikowana w innym czasopiśmie **Autorzy prac partycypują w kosztach ich wydania**. Informacja o opłatach i dodatkowe informacje dla autorów znajdują się na stronach internetowych.



[Home](#)

[Issues](#)

[Author Guidelines](#) ▾

[Editorial Board](#)

[Acta Journal Series](#)

[Contact](#)

[Search](#)

[Home](#) / [Archives](#) / Vol 20 No 1 (2021): Acta Scientiarum Polonorum. Oeconomia

DOI: <https://doi.org/10.22630/ASPE.2021.20.1>

Articles

THE INCOME SITUATION IN AGRICULTURE AFTER POLAND ENTERED THE EUROPEAN UNION

Magdalena Golonko, Marcin Wysokiński, Arkadiusz Gromada, Paulina Trębska, Radim Lenort
5-14

 PDF

THE STANDARD VAT RATE AND THE EFFECTIVENESS OF FISCAL POLICY IN EUROPEAN UNION COUNTRIES

Magdalena Jarczok-Guzy
15-24

 PDF

PROBLEMS OF BASIC HEALTH SERVICES IN THE BORDER AREAS OF INDONESIA'S NUSA TENGGARA TIMUR PROVINCE

Posma Sariguna Johnson Kennedy
25-33

 PDF

HOUSEHOLDS SAVINGS AND FINANCIAL BEHAVIOR IN RELATION TO THE ABILITY TO HANDLE FINANCIAL EMERGENCIES: CASE STUDY OF KOSOVO

Enkeleda Lulaj, Blerta Dragusha, Donjeta Lulaj, Vjollca Rustaj, Albiona Gashi
35-48

 PDF

FORENSIC ACCOUNTING AS AN INSTRUMENT FOR FRAUD DETECTION AND PREVENTION IN THE PUBLIC SECTOR: MODERATING ON MINISTRIES, DEPARTMENTS AND AGENCIES IN NIGERIA

Niyi Oladipo Olaniyan, Ayodele Temitope Ekundayo, Oladimeji Emmanuel Oluwadare, Theresa Omolade Bamisaye
49-59

 PDF

CORRELATION BETWEEN ECONOMIC GROWTH AND PUBLIC DEBT LEVEL IN SELECT COUNTRIES OF THE EUROPEAN UNION

Wioleta Sobczak, Elżbieta Radziejwicz
61-70

 PDF

UNREGISTERED EMPLOYMENT IN THE LOCAL LABOUR MARKET: CASE STUDY OF PŁOCK

Mariola Szewczyk-Jarocka, Janina Sawicka, Anna Nowacka
71-79

 PDF

FARM INVESTMENT IN POLAND UNDER CONDITIONS OF ECONOMIC CHANGES IN SELECTED AGRICULTURAL MARKETS

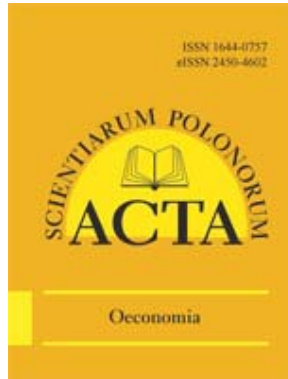
Elżbieta Jadwiga Szymańska, Mariusz Dziwulski
81-92

 PDF

OPPORTUNITIES FOR SELF-FINANCING THE USE OF HIGH-YIELDING SUNFLOWER SEEDS AMONGST SMALLHOLDER FARMERS IN TANZANIA: PERCEPTIONS VS. REALITY OF LIQUIDITY LIMITATIONS

Felister Yakobo Tibamanya, Joseph Andrew Kuzilwa, Daniel Fabiano Mpetu
93-104

 PDF



PROBLEMS OF BASIC HEALTH SERVICES IN THE BORDER AREAS OF INDONESIA'S NUSA TENGGARA TIMUR PROVINCE

Posma Sariguna Johnson Kennedy ✉

Christian University of Indonesia, Indonesia

ABSTRACT

This study aims to learn about the implementation of health policies dealing with malnutrition, as well as the factors that drive and hinder the application of these policies, in the Nusa Tenggara Timur (NTT) Province of Indonesia (East Nusa Tenggara, in English). The results show that the border regions, specifically the Kupang and Timor Tengah Utara (North Central Timor) Regencies, suffer the worst conditions and have the greatest need for priority attention. Areas with better conditions are the Alor and Malaka Regencies, which should be given second priority. The Belu Regency produces better results than the other regencies and should be given third priority. Some programs and health service improvements must be carried out, such as the development and empowerment of Human Resources in the health sector, and improvement of the facilities and infrastructure of Community Health Centers (*Puskemas*) with their networks.

Key words: border area, Nusa Tenggara Timur, basic health services, Human Development Index

JEL codes: I18, O11

INTRODUCTION

In Indonesia, quality health services can only be obtained by the people who have access to good health care facilities. This accessibility can be based on: geographical location (quality healthcare is found only in big cities that have complete and competent facilities and clinicians); access to finance (only the upper-middle class who can pay out-of-pocket can get quality services); access to relatives or relationships with the right people (such as fellow doctors or family doctors who can provide services “like to their own family”); access to information (only certain people can obtain information on the quality of specific health service facilities) and various other exclusive accesses [Utarini 2011].

In the border areas of Indonesia, people still have difficulty accessing basic services, such as education,

healthcare, nutritional adequacy, and employment. Therefore, the border areas must become a standard interface space where the border community's cosmopolitanism is seen as the power to build a prosperous Homeland front page [Kennedy et al. 2018]. In fulfilling the basic rights of a community, one of the most important is providing access to health services [Bappenas 2017].

The Nusa Tenggara Timur (NTT) Province (known as East Nusa Tenggara in English) is the southernmost province in Indonesia, consisting of more than 500 islands. NTT Province is both a sub-district and a district / city area that is geographically and demographically bordered by the country of Timor Leste. Generally speaking, a nation's border area is one that is geographically adjacent to a neighboring country, on land or by water. The boundaries are determined according to the functions of state defense and security,

economic growth, public welfare, and environmental sustainability. The border area of NTT Province is a land border that administratively covers four Regencies, namely Kupang Regency, Timor Tengah Utara (North Central Timor) Regency, Belu Regency, Malaka Regency. Alor Regency is a district on the edge that borders the sea with Timor Leste.

In order to access health services, the Community Health Centers (*Puskesmas*) are the health facilities most frequently used by the people of NTT. In general, outpatient care without intensive medical treatment at the *Puskesmas* is the most common service. Still, the cost is more expensive than the national average, and there are only 1.4 doctors per NTT *Puskesmas*, which is lower than the national average of 1.8 doctors per *Puskesmas*. Midwives work at the health centers in NTT and are also paid less than the national average. The limited number of general practitioners, specialists, and dentists can reduce the quality of services provided to residents in the *Puskesmas* service area.

The province of NTT is also one of the regions with the highest number of malnutrition sufferers in Indonesia [Ramadhini 2015].

AIM AND METHOD

This study aims to learn about the implementation of health policy in NTT Province. Specifically, in the context of implementing strategies to deal with nutrition in NTT, influenced by the power and interests of policymakers.

The research method in the study uses a quantitative description approach. The researcher uses various literature reviews and several data sources as secondary data. The data was obtained from the Deputy for Regional Development of Indonesia, and is devoted to analytical methods with a thematic approach; namely, to determine which policies had priority in the planning periods for health policy in the NTT Province.

Table 1. Scope and variables of thematic health of Nusa Tenggara Timur Province

Category	Component	Indicator
Availability	health workers	<ul style="list-style-type: none"> – midwife ratio per 100,000 people; – ratio of doctors per 100,000 people; – the ratio of other health workers per 100,000 people.
	health facility	<ul style="list-style-type: none"> – integrated service post managed by the community (<i>Posyandu</i>) ratio per 3,000 residents; – Community Health Centers (<i>Puskesmas</i>) ratio per 120,000 people; – the ratio of sub-health centers per 3,000 residents; – hospital ratio per 240,000 people.
Accessibility	proximity to the closest health facilities	<ul style="list-style-type: none"> – distance to inpatient community health centers (<i>Puskesmas</i>); – distance to community Health Centers (<i>Puskesmas</i>) without hospitalization;
	infrastructure	<ul style="list-style-type: none"> – distance to sub-health centers; – distance to the hospital; – distance to the doctor's clinic.
Affordability	ownership of health insurance from the government	percentage of health insurance from government ownership.
Sustainability	supporting the availability of health workers in the future	the existence of tertiary institutions in areas that have majors in the field of health.
Stability	disaster risk	District Indonesian Disaster Prone Index.

Source: [Bappenas 2017].

A structured holistic analysis method was used, with a scope divided into five categories, namely: availability, accessibility, affordability, sustainability, and stability (Table 1). This thematic level analysis aims to map districts in the border region of NTT Province with thematic composite values at low, medium, and high levels of achievement [Bappenas 2017].

In determining district cities, we have thematic composite values: low, medium, and high achievement levels (Table 1), established by the following three criteria:

- Low thematic achievement levels – if the assessment from the district is smaller than the provincial and national values.
- Middle thematic achievement levels – if the assessment from the district is greater or equal to the provincial value, and smaller than the national benefit. Or, the number of municipal areas is greater or equal to the domestic value and lower or equal to the provincial value.
- High thematic achievement levels – if the assessment from the district is higher than the provincial and national values.

ACCESS TO HEALTH SERVICES IN COMMUNITY HEALTH CENTERS

Healthcare development aims to maintain public health so that the community can live longer and more productively by increasing individual health services (curative and rehabilitative) and public health services (preventive and promotive). Health services are carried out through health facilities and Community Based Health Efforts to be able to reach all members of the community. The strengthening of quality primary healthcare services is the main goal for healthcare policy in Indonesia's 2015–2019 Five-Year Development Plan [Perpres 2015]. However, a more operational strategy needs to be formulated. This policy of strengthening essential health efforts needs to be translated into operational plans. At the global level, the primary health care approach (Primary Health Care) has been recognized as the right approach in achieving health for all.

Access to health services according to the international Governance and Decentralization Survey is

defined as a way for a person to obtain health services, that are [Pattinasarany and Kusuma 2008]:

- available continuously, when the community needs it, and able to be accessed at any time;
- able to obtain health workers/facilities easily and quickly, which relates to geographical aspects of location, distance traveled, ease of transportation, and other factors;
- an affordable cost of health services for the community, especially for the poor .

According to the Indonesian Ministry of Health [2012], in the Guidelines for Improving Access to Health Services, there are several ways to provide health services through the Presidential Instruction program and foreign aid programs that are routinely carried out in almost all districts in Eastern Indonesia, even in limited conditions. There are several methods used, namely: (1) the sovereignty approach, (2) the welfare approach. In the implementation of health services in disadvantaged areas, borders and islands need to establish cooperation and integration between ministries and related institutions, local governments, the business world, the private sector and non-governmental organizations (NGOs). This was done to increase the leverage of programs/activities carried out for communities in the region [Ministry of Health 2012].

In the National Health System [Perpres 2012], the first healthcare revitalization approach includes: Coverage of fair and equitable health services; Providing quality health services that are in line with the interests and expectations of the people; and Public health policies to improve and protect public health, professionalism in health development. Community Health Centers (in Indonesia called *Puskesmas*), the center for community health in Indonesia, are the first-level health facilities established to reduce disparities in health development in all regions.

Community Health Centers (*Puskesmas*) are the leading health service facilities built by the government in 1968, ten years before the Alma Ata Declaration in 1978. In 1975, to accelerate the equitable distribution of health services, the construction of *Puskesmas* was determined through a Presidential Instruction, which allocated one *Puskesmas* in each sub-district. As such, *Puskesmas* is the leading health care unit. In subse-

quent developments, to expand the reach of health services, an auxiliary health center (*Pustu*) was built under the coordination and fostering of a *Puskesmas*. The number of sub-health centers is determined by the needs of the working area of the *Puskesmas*. In addition to the *Pustu*, *Puskesmas* are also strengthened by mobile health centers (*Pusling*) in the form of four-wheeled vehicles (in some areas by ships/boats).

Puskesmas provide support for five types of essential services in an integrated manner, namely: (1) Health of mother and child; (2) Family planning; (3) immunization; (4) nutrition; (5) diarrhea treatment. However, in 1984, to overcome maternal and child health problems, *Posyandu* (Integrated Service Post) was developed. *Posyandu* is a health service post designed and managed by the community, so it is not part of government-owned services. Until the end of 1999, before the decentralization policy was implemented, the *Puskesmas*, *Pustu*, *Pusling*, and *Posyandu* policies, coupled with an intensive national family planning program, succeeded in increasing family planning coverage, immunization coverage, and coverage of under-fives. Many countries have appreciated this success, and Indonesia is often used in comparative studies and provides training to other countries, especially developing countries.

It is important to note that two policies influence the development of Community Health Centers in Indonesia (*Puskesmas*), namely: (1) Regulation No.71/2013 on Health Services in the National Health Insurance, which sets *Puskesmas* as a First Level Health Facility in National Health Insurance implementation; (2) Regulation No.75/2014 concerning *Puskesmas*. In Regulation No.71/2013, it was determined that the *Puskesmas* is a First Level Health Facility that works closely with government health insurance and “must” provide individual, comprehensive health services. The intended comprehensive health services include promotive, preventive, curative, rehabilitative, midwifery, and medical emergency health services. Medical emergency health services include supporting services such as simple laboratory examinations and pharmaceutical services. Furthermore, Regulation No.75/2014, men-

tioned that *Puskesmas* are health service facilities that carry out first level public health efforts and individual health efforts, by prioritizing promotive and preventive efforts, to achieve the highest possible level of public health within their working areas.

HEALTH INDICATORS FROM THE NTT PROVINCE¹

From the 2017 data, there are three health problems faced by NTT Province, namely: a high percentage of unhealthy people, as much as 64%; a high percentage of citizens who have not participated in the National Health Insurance, as much as 60.4%; and the fact that there are as many as 75.7% of smokers in the family, with the number of hypertension sufferers who take irregular treatment as high as 61.1%. The high number of unhealthy community presentations makes NTT one of the priority target areas by the government.

The life expectancy of the NTT population every year is increasing but not too significantly, only by around 1–5 months. The life expectancy of NTT residents in 2015 was 65.96 years, which means that children born in 2015 are expected to live on average until the age of 66. In 2016 the life expectancy rate was 66.04, which means that children born in 2016 are expected to live on average until the age of 67, and in 2017 the life expectancy rate is 66.07 [BPS-NTT 2018]. The percentage of children under five years of age in the province of NTT declined from 2015 to 2017 but is still the highest in Indonesia. The increase occurred in the percentage of children under five and under five years old wasting and underweight.

Integrated Service Post Ratio (*Posyandu*) Per Unit Toddler

The development of the Integrated Service Posts, managed by the community (*Posyandu*) in 2013–2017 has increased. Still, the ratio is fluctuating with toddlers (babies under the age of five) that are served. The 2013 rate was 15.18; in 2014, it was 16.45, and in 2017 it was 15.89, which means that 15 *Posyandu* can accommodate 1000 children (15 : 1000). Even though

¹ Based on: [RPJMN-NTT 2018].

Table 2. Integrated Service Post (*Posyandu*) Ratio per Toddler Unit of Nusa Tenggara Timur Province in 2013–2017

Description	2013	2014	2015	2016	2017
Integrated Service Post (<i>Posyandu</i>)	9,368	10,323	10,178	10,033	10,053
Number of Toddlers	617,216	627,547	622,757	627,471	632,639
<i>Posyandu</i> Ratio / Unit Toddler	15.18	16.45	16.34	15.99	15.89

Source: [Pemda-NTT 2018].

it has passed the ideal condition, where ten *Posyandu* serve 1000 children, the activity of the *Posyandu* is still low; in 2017, the percentage of active *posyandu* only reached 50.78%. *Posyandu* development and ratios are shown in Table 2.

Health Infrastructure Ratio per Population Unit

In 2016, the number of Community Health Centers (or *Puskesmas*) was 384, with a ratio of 1 : 13,550 inhabitants; in 2017 it increased to 396 *Puskesmas* with a rate of 1 : 13,351 inhabitants. The ideal condition, where one *Puskesmas* serves 16,000 residents, but within geographical limits, means that there is a need to increase the number of *Puskesmas* to help residents in the remote, border, and island areas. The increase in the number of *Puskesmas* was also offset by the rise of *Polindes* (village service post) and clinics / health centers, which in 2017 each had a ratio of 1 : 5513

people for *Polindes* and a rate of 1 : 550,760 people for clinics / health centers. However, Helper Health Centers have decreased so that the proportion of helper health centers in 2017 was 1 : 4,979, which means it has not met the ideal ratio of 1 : 1,500 residents. This can be seen in Table 3.

Hospital Ratio per Population Unit

The number of hospitals in the 2013–2017 period showed an increasing trend. In 2013 there were 43 hospitals registered, increasing in 2017 to 50 hospitals. Compared with the total population, the ratio of hospitals to total population in 2013–2017 is not sufficient. In 2017 there was a ratio of 1 : 103,672 people, while ideally there should be one hospital per 1000 residents in the community (by WHO). Addition of hospital facilities and their rates is shown in Table 4.

Table 3. The Ratio of Community Health Centers Per Population of NTT Province in 2013–2017

Description	2013	2014	2015	2016	2017
Community Health Centers (<i>Puskesmas</i>)	368	379	383	384	396
– <i>Puskesmas</i> ratio	1 : 13,461	1 : 13,289	1 : 13,368	1 : 13,550	1 : 13,351
Supporting Health Centers	1,080	1,081	1,088	1,081	1,062
– Ratio of Supporting <i>Puskesmas</i>	1 : 4,587	1 : 4,659	1 : 5,625	1 : 4,814	1 : 4,979
Village service posts (<i>Polindes</i>)	755	1,022	710	944	959
– <i>Polindes</i> ratio	1 : 6,561	1 : 4,928	1 : 7,211	1 : 5,512	1 : 5,513
Clinic / Health Center	0	0	0	29	96
– Clinic / Health Center Ratio	0	0	0	1 : 179,431	1 : 550,760
Total population	4,953,967	5,036,897	5,120,061	5,203,514	5,287,302

Source: [Pemda-NTT 2018].

Table 4. Number and Ratios of Hospitals per Population of NTT Province in 2013–2017

Description	2013	2014	2015	2016	2017
Hospital	43	44	46	47	51
Total population	4,953,967	5,036,897	5,120,061	5,203,514	5,287,302
Hospital Ratio	1 : 115,208	1 : 114,474	1 : 111,305	1 : 110,713	1 : 103,672

Source: [Pemda-NTT 2018].

The Ratio of Doctors and Medical Personnel Per Unit Population

Health development must include the availability of medical personnel and health infrastructure. In 2017 the rate of medical staff (specialist doctors, general practitioners, and dentists) was 17 per 100,000 population, an increase from 2013 of 14 per 100,000 people. The ratio of midwives rose from 56 per 100,000 people in 2013 to 74 per 100,000 people in 2017, while the proportion of nurses decreased from 108 per 100,000 people in 2013 to 97 per 100,000 people in 2017. Other health workers (nutritionists, sanitarians, pharmacists and pharmacist assistants, public health workers, physical therapists, and medical engineers) rose from 39 per 100,000 people in 2013 to 67 per 100,000 people in 2017. Although the ratio of health workers tends to be increasing, it is still far below standard conditions. This can be seen in Table 5.

Health Problems at the Border of NTT

When seen from the determinants of supply, an essential issue in remote areas of the border region is transportation problems and the question of *Puskesmas* resources. Therefore, the development of transporta-

tion needs an appropriate plan. Estimates regarding the need for transportation depend on several factors, including regional conditions, the number and distribution of service targets and the number and types of activities carried out [Reinke 1994].

Regencies included in the border of NTT Province and the State of Timor Leste are the Regencies of Malaka, Alor, Kupang, Timor Tengah Utara, and Belu. Table 6 shows the status of health services in the border regions of NTT and Timor Leste.

It can be seen from Table 6 that the variables which most need to be considered as a priority by each border district are:

- Malaka: affordability and sustainability;
- Alor: accessibility, affordability, and stability;
- Kupang: availability, sustainability, and stability;
- Timor Tengah Utara: availability, affordability, sustainability, and stability;
- Belu: affordability.

The worst Regency in terms of health services is Timor Tengah Utara Regency, and the best is Belu Regency. Of the five variables, the main issue is affordability, namely that there is limited ownership of health insurance provided by the government. Additionally,

Table 5. The Ratio of Health Workers by Health Facility of NTT Province in 2013–2017

Types of Health Workers	The Ratio of NTT Health Workers per 100,000 population year					Standard
	2013	2014	2015	2016	2017	
Medical personnel	14	20	15	15	17	62
Midwife	56	56	72	72	74	100
Nurse	108	108	91	92	97	173
Power Health Others	39	39	55	48	67	83

Source: [Pemda-NTT 2018].

Table 6. Result of Thematic Analysis of Health in NTT Province Border Region

Name of Regency	Availability	Accessibility	Affordability	Sustainability	Stability
Malaka	████████████████████	██	████████████████████	████████████████████	████████████████████
Alor	██	████████████████████	████████████████████	████████████████████	████████████████████
Kupang	████████████████████	████████████████████	████████████████████	████████████████████	████████████████████
Timor Tengah Utara	████████████████████	████████████████████	████████████████████	████████████████████	████████████████████
Belu	████████████████████	██	████████████████████	████████████████████	████████████████████

██████████ = Low Status Priority 1
 ████████████████████ = Medium Status Priority 2
 ██ = High Status Priority 3

Source: Modified Analysis of Profile Formation and Regional Analysis [Bappenas 2017].

when considering the matter of sustainability, the main problem is the limited number of universities/colleges in the area that have departments of health. Problems of availability and stability arise especially in the

Kupang and Timor Tengah Utara Districts. Based on the results shown in Table 6, the main problems, program goals, and needed actions for achieving them can be seen in Table 7.

Table 7. Analysis Results of the Main Thematic Problems of Health in NTT Province Border Region

Categories	Main Problems	Program Goals	Needed Actions
1. Availability	<ul style="list-style-type: none"> – limited number of doctors, nurses, and midwives; – unequal placement of doctors; – unequal health service facilities in the rural, border, and remote areas; – there is still a minimum level in the quantity and quality of health service facilities and infrastructure. 	improved health services	<ul style="list-style-type: none"> – develop and empower Human Resources in the health sector; – procure and improve facilities and infrastructure of Community Health Centers / <i>Puskemas</i>, assistants and their networks
2. Accessibility	limited supporting infrastructure to gain access to health services	development of supporting infrastructure.	develop transportation infrastructure
3. Affordability	limited ownership of health insurance from the government	promotion of health insurance from the government	improved health insurance services from the government
4. Sustainability	limited universities/academies in regions that offer studies in health	increasing human resources in the health sector.	provide and /or increase the quantity and quality of health studies in tertiary institutions/colleges in the regions.
5. Stability	the disaster risk index in several districts/cities is relatively high	disaster mitigation	<ul style="list-style-type: none"> – disaster risk prevention and reduction; – community empowerment in disaster preparedness; – preparation of preparedness and mitigation plans in the event of a disaster; – installation of an early warning system; – disaster information (disaster awareness culture).

Source: Modified Analysis of Profile Formation and Regional Analysis [Bappenas 2017].

The Ministry of Health needs to pay special attention to the border area by taking into account the region's condition, distribution of service targets, and the number and type of activities carried out. When looking at the determinants of demand for users of the healthcare system, the constraints that exist include: the distance of the user's residence from the place of service, the difficulty of access to the location of health care, lack of funds for transportation costs, and lack of funds for medical expenses due to the economic situation of the community.

CONCLUSION

The results obtained from the border regions of NTT show that the Kupang and Timor Tengah Utara Districts have the worst conditions and need to be given the most priority attention concerning healthcare. Areas with better conditions are the Alor and Malaka Districts, which should have second priority. The sector with third priority is the Belu District, which shows better results than the other districts but still requires improvements.

Health service programs that must be improved include: development and empowerment of Human Resources in the health sector; procurement and improvement of facilities and infrastructure of the Community Health Centers (*Puskesmas*) and their networks; promulgation and development of health insurance services from the government; improving human resources by providing and increasing the quantity and quality of health education in institutions/academies in the regions. And it is very important not to forget the need for strong disaster mitigation programs throughout the border areas.

In implementing health policies, it is necessary to implement strategies that can change people's behavior. Decision-makers have not yet implemented an optimal policy, which is the result of conflicting strengths and interests of political actors between the central and regional governments. It is necessary to develop a high-level governor's strategy, which would provide his authority to implement health policies that deal with malnutrition and related critical health problems in the NTT Province.

Acknowledgment

This research was conducted thanks to Simlibtamas research funding in 2019, provided by the Ministry of Research, Technology, and Higher Education Services, Region III, Jakarta. The researcher also thanks LPPM-UKI and all those who helped with the study.

REFERENCES

- Bappenas (2017). PrADa Profil dan Analisis Daerah Provinsi: Nusa Tenggara Timur [PrADa Regional Profile and Analysis of the Province of East Nusa Tenggara]. Deputy for Regional Development Ministry of PP. Bappenas of the Indonesian Republic, Jakarta. Retrieved from https://simreg.bappenas.go.id/assets/temaalus/document/Publikasi/DokPub/PRADA_PROVINSI_NUSA_TENGGARA_TIMUR1.PDF [accessed 12.01.2020].
- BPS-NTT (2018). Umur Harapan Hidup Menurut Kabupaten / Kota Provinsi Nusa Tenggara Timur [Life Expectancy According to Regency / City of East Nusa Tenggara Province]. Retrieved from <https://ntt.bps.go.id/dynamictable/2015/03/06/19/-metode-baru-umur-harapan-hidup-menurut-kabupaten-kota-provinsi-nusa-tenggara-timur-2010-2017.html> [accessed 14.01.2020].
- Kementerian Kesehatan Republik Indonesia (2012). Pedomian Peningkatan Akses Pelayanan Kesehatan di DPTK [Guidelines for Improving Access to Health Services in DPTK]. Direktorat Jenderal Bina Upaya Kesehatan Dasar. Retrieved from <http://digilib.poltekkesdepkes-sby.ac.id/public/POLTEKKESBY-Books-402-PedomanpeningkatanaksespelayanankesehatandiDTPK.PDF> [accessed 14.01.2020].
- Kennedy, P.S.J., Tobing, S.J.L., Heatubun A.B., Toruan R.L. (2018). Strategic Issues of Indonesian Border Area Development based on The Master Plan 2015–2019. [In:] *Proceeding International Seminar on Accounting for Society*, Faculty of Economy Universitas Pamulang, 21 March 2018, 190–198. Retrieved from: <http://openjournal.unpam.ac.id/index.php/Proceedings/article/view/1830/1527> [accessed 14.01.2020].
- Pattinasary D., Kusuma C. (2008). *Pelayanan Kesehatan dan Pendidikan di Provinsi Nusa Tenggara Timur (NTT). Temuan GDS Tahun 2006*. Decentralization Support Facility, Jakarta.
- Peraturan Menteri Kesehatan Republik Indonesia Nomor 71 Tahun 2013 tentang Pelayanan Kesehatan tentang Jaminan Kesehatan Nasional [Regulation No. 71/2013 concerning Health Services on National Health Insurance].

- Peraturan Menteri Kesehatan Republik Indonesia Nomor 75 Tahun 2014 tentang Puskesmas [Regulation No. 75/2014 on Community Health Centers].
- Peraturan Presiden Republik Indonesia Nomor 72 Tahun 2012 tentang Sistem Kesehatan Nasional [Presidential Regulation of the Republic of Indonesia No. 72/2012 concerning the National Health System].
- Peraturan Presiden Republik Indonesia Nomor 2 Tahun 2015 tentang Rencana Pembangunan Jangka Menengah Nasional (RPJMN) 2015–2019 [Presidential Regulation of the Republic of Indonesia No. 2/2015 concerning the 2015–2019 National Medium-Term Development Plan (RPJMN)].
- Ramadhini, E. (2015). Kesenjangan Sosial dalam Akses terhadap Pelayanan Kesehatan di Provinsi Nusa Tenggara Timur [Social Gap in Access to Health Services in East Nusa Tenggara Province]. Fakultas Ilmu Sosial dan Ilmu Politik Universitas Indonesia, Jakarta.
- Peraturan Daerah (PERDA) Provinsi Nusa Tenggara Timur Nomor 4 Tahun 2019 tentang Rencana Pembangunan Jangka Menengah Daerah provinsi Nusa Tenggara Timur Tahun 2018–2023 [Regional Regulation (PERDA) of East Nusa Tenggara Province Number 4 of 2019 concerning the Mid-Term Development Plan for the Province of East Nusa Tenggara for 2018–2023].
- Pemda-NTT (2018). Sistem Informasi Pembangunan Daerah Provinsi Nusa Tenggara Timur [East Nusa Tenggara Province Regional Development Information System], Kupang. Retrieved from <https://drive.google.com/file/d/1aQeHR6i4BasZMnPP47ejUxohfA39Is5C/view> [accessed 15.01.2020].
- Reinke, W.A. (1994). Perencanaan Kesehatan Untuk Meningkatkan Efektifitas [Health Planning To Increase Effectiveness]. Gadjah Mada University Press, Jakarta.
- Utarini Adi (2011). Mutu Pelayanan Kesehatan di Indonesia: Sistem Regulasi yang Responsif. In Pidato Guru Besar Universitas Gadjah Mada [Quality of Health Services in Indonesia: A Responsive Regulatory System]. Inauguration speech for Professor of Gadjah Mada University on July 25, 2011 in front of the Gadjah Mada University Council of Professors, Jakarta.

PROBLEMY PODSTAWOWYCH USŁUG ZDROWOTNYCH NA OBSZARACH GRANICZNYCH INDONEZJI W PROWINCJI NUSA TENGGARA TIMUR

STRESZCZENIE

Celem artykułu było poznanie wdrażania polityki zdrowotnej w zakresie przeciwdziałania niedożywieniu, a także czynników, które kierują i utrudniają jej stosowanie jako polityki zdrowotnej w prowincji NTT. Wyniki uzyskane z obszarów przygranicznych, którym należy poświęcić najwięcej uwagi problemowi zdrowotnemu, to dzielnice Kupang i Timor Tengah Utara, jako obszary o najgorszych warunkach – przypisano im I priorytet. Obszary o lepszych warunkach to dzielnice Alor i Malaka – II priorytet. Trzecim priorytetem jest dystrykt Belu, który daje lepsze wyniki niż inne dystrykty. Badania wykazały, że konieczne jest wdrożenie dodatkowych programów i poprawienie usług zdrowotnych, takich jak rozwój i wzmocnienie zasobów ludzkich w sektorze zdrowia, poprawa obiektów i infrastruktury wspólnotowych ośrodków zdrowia (*Puskemas*) wraz z ich sieciami.

Słowa kluczowe: obszar przygraniczny, Nusa Tenggara Timur, podstawowe usługi zdrowotne, *Human Development Index*

Platform &
workflow by
OJS / PKP

Acta Scientiarum Polonorum – ogólnopolskie czasopismo naukowe polskich uczelni rolniczych, publikuje oryginalne prace w następujących seriach tematycznych:

Agricultura – Agronomia

Wydawnictwa Uczelniane Uniwersytetu Technologiczno-Przyrodniczego w Bydgoszczy
ul. Ks. A. Kordeckiego 20, 85-225 Bydgoszcz, tel. 52 374 94 36, fax 52 374 94 27

Biologia – Biologia

Wydawnictwo Uniwersytetu Przyrodniczo-Humanistycznego w Siedlcach
ul. Bema 1, 08-110 Siedlce, tel. 25 643 15 20

Biotechnologia – Biotechnologia

Geodesia et Descriptio Terrarum – Geodezja i Kartografia

Medicina Veterinaria – Weterynaria

Wydawnictwo Uniwersytetu Przyrodniczego we Wrocławiu
ul. Sopocka 23, 50-344 Wrocław, tel./fax 71 328 12 77

Technica Agraria – Inżynieria Rolnicza

Hortorum Cultus – Ogrodnictwo

Wydawnictwo Uniwersytetu Przyrodniczego w Lublinie
ul. Akademicka 13, 20-033 Lublin, tel. 81 445 67 11, fax 81 533 37 52

Piscaria – Rybactwo

Zootechnica – Zootechnika

Wydawnictwo Uczelniane Zachodniopomorskiego Uniwersytetu Technologicznego w Szczecinie
al. Piastów 50, 70-311 Szczecin, tel. 91 449 40 90, 91 449 41 39

Silvarum Colendarum Ratio et Industria Lignaria – Leśnictwo i Drzewnictwo

Technologia Alimentaria – Technologia Żywności i Żywnienia

Wydawnictwo Uniwersytetu Przyrodniczego w Poznaniu
ul. Witosa 45, 61-693 Poznań, tel. 61 848 78 07, fax 61 848 78 08

Administratio Locorum – Gospodarka Przestrzenna

Wydawnictwo Uniwersytetu Warmińsko-Mazurskiego w Olsztynie
ul. Heweliusza 14, 10-724 Olsztyn, tel. 89 523 36 61, fax 89 523 34 38

Architectura – Budownictwo

Oeconomia – Ekonomia

Wydawnictwo Szkoły Głównej Gospodarstwa Wiejskiego w Warszawie
ul. Nowoursynowska 166, 02-787 Warszawa, tel. 22 593 55 20

Formatio Circumiectus – Kształtowanie Środowiska

Wydawnictwo Uniwersytetu Rolniczego w Krakowie
al. 29 Listopada 46, 31-425 Kraków, tel. 12 662 51 57, 12 662 51 59

