INTRODUCTION

Indonesia has committed to ensuring that reproductive health is included into national plans and initiatives that are part of the 2030 Sustainable Development Goals (SDGs). This includes ensuring that everyone has access to Family Planning (FP), information, and education. Use of contemporary contraceptives by couples of childbearing age (EFA) between the ages of 15 and 49 who want to put off having children or who do not want to have any additional children is one indicator.1,2

Women who do not use modern contraception are still high in Indonesia. The percentage of married couples whose wife between the ages of 15 to 49 years and aren’t using contraception, those who still wanted children but have postponed it for up to 2 years and those who decided that they didn’t want any more children is called unmet need for FP.3 Based on data from the United Nations (UN) in 2019, the median of unmet need for FP in Indonesia is 10.1%, above the unmet need for FP in Southeast Asia (8.9%) and is ranked the 4th largest out of 10 countries in Southeast Asia.4 According to data from the Indonesia Demographic and Health Survey (IDHS) from 2017, the country’s unmet need for family planning is 10.6%, which is still less than the 9.91% objective set by the National Population and Family Planning Agency for 2019.5,6

Unmet need for FP is an indicator of access and delivery of reproductive health services.7 In addition, unmet need for FP is an indicator of population, development and empowerment of women, as well as a description of the health system and social conditions of a region that supports women’s ability to realize a preference for delaying or limiting births.8 Unmet need for FP is also an indicator in the monitoring and evaluation of FP program.9 Reducing unmet need for FP can reduce birth rates and maternal mortality, unwanted pregnancies and unsafe abortions.10–12

Since 2000, each region has had the flexibility to implement specific policies according to the needs of the region, including FP program policies.13 National Population and Family Planning Agency strategic plan in 2020-2024 has included regional-based priority program and activity planning.14 Regional analysis in development, especially FP programs is important to make rational policies regarding resources.15 Regional analysis, especially in the FP program is carried out to measure the achievement of FP programs in an area. This study aimed to describe the unmet need for FP in 7 regions in Indonesia in 2018-2021, which regions are development areas in the National Medium Term Development Plan 2020-2024, that is Sumatra, Sulawesi, Kalimantan, Maluku, Nusa Tenggara, Java-Bali, and Papua.

METHODS

Study Design

This research is an ecological study using aggregated data of 34 Provinces in Indonesia. The research was conducted from March to November 2022.

ABSTRACT

Introduction: Unmet need for Family Planning (FP) was conducted to measure the achievement of the FP program. Since decentralization, each region has the flexibility to implement certain policies according to regional needs, including family planning program policies. This study aimed to describe the unmet need for FP in 7 regions in Indonesia in 2018-2021.

Methods: This research is an ecological study using data derived from the National Population and Family Planning Agency Field Control Report in 2018-2021 and descriptively analyzed based on 7 development areas of the 2020-2024 National Medium-Term Development Plan. Unmet need for FP is the percentage of married couples whose wife is between the ages of 15 to 49 years and aren’t using contraception, those who still wanted children but have postponed it for up to 2 years and those who decided that they didn’t want any more children.

Result: The results showed that the unmet need for FP in the Nusa Tenggara, Kalimantan, Sulawesi, Maluku, and Papua regions continued to decline in 2018-2021. The largest decrease in unmet need for FP occurred in Papua (7.6%) while the smallest decrease occurred in Sumatra (0.9%).

Conclusion: The magnitude of the decrease in the unmet need for FP varies by region. Region-specific FP program interventions are needed to increase the need for contraception in couples of childbearing age (EFA).

Keywords: Couple, contraception, family planning (FP), region, unmet need.
Data Collection
Provinces are grouped into 7 national development areas based on the National Medium Term Development Plan in 2020-2024, that is Sumatra, Sulawesi, Kalimantan, Maluku, Nusa Tenggara, Java-Bali, and Papua. Sumatra consists of 10 provinces, that is South Sumatra, Aceh, West Sumatra, North Sumatra, Lampung, Riau, Jambi, Bangka Belitung, Bengkulu, and the archipelago of Riau. Java-Bali consists of 7 provinces, that is the Special Region of Yogyakarta, Special Capital Region of Jakarta, West Java, Banten, East Java, Central Java, and Bali. Kalimantan consists of 5 provinces, that is West Kalimantan, East Kalimantan, Central Kalimantan, North Kalimantan, and South Kalimantan. Sulawesi consists of 6 provinces, that is South Sulawesi, West Sulawesi, Southeast Sulawesi, North Sulawesi, Central Sulawesi, and Gorontalo. Nusa Tenggara consists of 2 provinces, that is East Nusa Tenggara and West Nusa Tenggara. Maluku consists of 2 provinces, that is Maluku and North Maluku. Papua consists of 2 provinces, that is Papua and West Papua. This study uses secondary data from the National Population and Family Planning Agency official website for public information, data, and information, that is the Field Control Report in 2018-2021. The data used and analyzed are available on the official National Population and Family Planning Agency website, that is: http://aplikasi.bkkbn.go.id/sr/DALLAP/Laporan2013/ViewLaporanDALLAP.aspx.

Variable of the Study
The variable is an unmet need for FP. Definition of unmet need for FP is the percentage of married couples whose wife between the ages of 15 to 49 years and aren’t using contraception, those who still wanted children but have postponed it for up to 2 years and those who decided that they didn’t want any more children. Unmet need for FP is taken from the average monthly National Population and Family Planning Agency Field Control Report in table 21 entitled EFA who are not FP participants in 2018-2021.

Data Analysis
Data analysis in this study is a descriptive statistic that produces mean and standard deviation values.

RESULTS
Unmet need for FP in the areas of Nusa Tenggara, Kalimantan, Sulawesi, Maluku, and Papua continued to decline in 2018-2021. However, the largest decrease in unmet need for FP in 2018-2021 occurred in the Papua region, followed by Maluku. The lowest unmet need for FP in the Java-Bali region is around 11% and the highest is around 24% in the Papua region in 2018-2021 (Figure 1).

The gap in unmet need for FP as seen from the standard deviation value continues to decline from year to year in the Java-Bali region, Nusa Tenggara in 2018-2021. Every year in 2018-2021, Papua becomes the region with the largest gap, while the smallest gap occurs in Maluku (Table 1).

DISCUSSION
Unmet need for FP has decreased in all regions in Indonesia in 2018-2021. However, it has not yet reached the target of the National Population and Family Planning Agency strategic plan in 2014-2019, which is 9.9%. In addition, it has not yet reached its 2020 (8.6%) and 2021 (8.3%) targets. Since 2001, the FP program has shifted from the central...


Table 1. Standard Deviation of Percentage of Unmet Need for FP in 7 National Development Areas in Indonesia in 2018-2021.

<table>
<thead>
<tr>
<th>Region</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sumatra</td>
<td>3.0</td>
<td>5.0</td>
<td>5.0</td>
<td>3.1</td>
</tr>
<tr>
<td>Java-Bali</td>
<td>3.2</td>
<td>3.1</td>
<td>2.7</td>
<td>2.6</td>
</tr>
<tr>
<td>Nusa Tenggara</td>
<td>3.7</td>
<td>3.1</td>
<td>2.4</td>
<td>1.7</td>
</tr>
<tr>
<td>Kalimantan</td>
<td>3.9</td>
<td>3.2</td>
<td>4.2</td>
<td>4.3</td>
</tr>
<tr>
<td>Sulawesi</td>
<td>3.8</td>
<td>2.5</td>
<td>2.8</td>
<td>2.9</td>
</tr>
<tr>
<td>Maluku</td>
<td>0.0</td>
<td>0.1</td>
<td>0.7</td>
<td>0.2</td>
</tr>
<tr>
<td>Papua</td>
<td>18.1</td>
<td>19.6</td>
<td>15.2</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Table 2. The amount of decrease in the percentage of Unmet Need for FP in 7 National Development Areas in Indonesia in 2018-2021.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Sumatra</td>
<td>0.6</td>
<td>-1.2</td>
<td>-0.3</td>
<td>-0.9</td>
</tr>
<tr>
<td>Java-Bali</td>
<td>0</td>
<td>0.8</td>
<td>0.7</td>
<td>-1.5</td>
</tr>
<tr>
<td>Nusa Tenggara</td>
<td>-0.8</td>
<td>-1</td>
<td>0.3</td>
<td>2.1</td>
</tr>
<tr>
<td>Kalimantan</td>
<td>-0.5</td>
<td>-0.1</td>
<td>-1.1</td>
<td>-1.7</td>
</tr>
<tr>
<td>Sulawesi</td>
<td>-0.5</td>
<td>-0.6</td>
<td>-0.6</td>
<td>-1.7</td>
</tr>
<tr>
<td>Maluku</td>
<td>-0.9</td>
<td>-2.1</td>
<td>-2.5</td>
<td>-5.5</td>
</tr>
<tr>
<td>Papua</td>
<td>-2.8</td>
<td>-2.5</td>
<td>-1.3</td>
<td>-7.6</td>
</tr>
<tr>
<td>National</td>
<td>0.1</td>
<td>0.7</td>
<td>0.9</td>
<td>1.5</td>
</tr>
</tbody>
</table>

CONCLUSION

The magnitude of the decrease in the unmet need for FP varies by region. Region-specific FP program interventions are needed to increase the need for contraception in EFA. Further research with a larger sample and a different study design is needed to find out more about the factors that influence Family Planning (FP) in 7 National Development Areas in Indonesia.

DISCLOSURES

Ethical Considerations

Not applicable.

Conflict of Interest

The authors have no conflict of interest.

Author Contribution

All authors similarly contribute to the think about from the investigate concepts, information acquisitions, information investigation, factual investigations, changing the paper, until detailing the consider comes about through publication.

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REFERENCES

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