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The Impact of Social Psychological and Socio-**Cultural Resilience on Exclusive Breastfeeding Behavior: An Analytical Cross-Sectional Study**

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ABSTRACT Despite the well-documented benefits of breastfeeding, global exclusive breastfeeding rates remain suboptimal, with Indonesia reporting only 64.99% coverage in 2015 falling short of the national 80% target. This study investigates the underexplored role of social psychological and socio-cultural resilience factors in shaping exclusive breastfeeding behaviors among postpartum mothers. Employing an analytical cross-sectional design, we surveyed 108 postpartum mothers selected via simple random sampling in Surabaya, Indonesia. Validated questionnaires assessed two independent variables social psychological resilience (anti-violence attitudes, law compliance) and socio-cultural resilience (social concern, cohesion, religious observance) against the dependent variable of exclusive breastfeeding practice. Data were analyzed using Chisquare/Fisher's exact tests and logistic regression (α=0.05). Key findings revealed no significant association between social psychological resilience indicators and breastfeeding outcomes (all p>0.05). However, socio-cultural resilience demonstrated a statistically significant positive influence, particularly through social concern (p=0.014, OR=1.12, 95%CI [1.03-1.22]). Logistic regression confirmed this relationship (β=-3.695, p=0.004), indicating mothers with strong community support systems were 2.5 times more likely to practice exclusive breastfeeding. These results highlight that socio-cultural factors specifically community engagement and collective support are stronger predictors of breastfeeding success than individual psychological resilience. The study underscores the need for public health strategies that strengthen community-based support networks rather than focusing solely on maternal education. Future research should explore cultural variations across regions and investigate longitudinal impacts of community interventions on breastfeeding sustainability. This evidence advances understanding of how social ecosystems influence maternal health behaviors, providing policymakers with actionable insights to bridge the gap between breastfeeding knowledge and practice through culturally grounded support systems.

INDEX TERMS exclusive breastfeeding, socio-cultural resilience, social psychological resilience, maternal health behavior, community support

I. INTRODUCTION

Breastfeeding represents a critical public health intervention with demonstrated benefits for both infant and maternal health outcomes [1]. Despite global advocacy efforts, exclusive breastfeeding (EBF) rates remain suboptimal worldwide, with only 44% of infants under six months being exclusively breastfed as of 2022 [2]. In Indonesia, this challenge persists with a 64.99% EBF rate reported in Surabaya [3], falling significantly short of both national targets (80%) and WHO recommendations [4]. This discrepancy between evidence-based guidelines and actual practice necessitates urgent investigation into the complex determinants of breastfeeding behavior. The problem extends beyond mere knowledge dissemination, as studies indicate that even among mothers aware of breastfeeding benefits, actual practice remains inconsistent [5]. Traditional research has predominantly focused on individual-level factors such

as maternal education, employment status, and healthcare access [6]-[8]. While these elements remain important, emerging evidence suggests that psychosocial sociocultural dimensions may play equally crucial, yet understudied, breastfeeding roles [9],[10].Recent methodological advances have employed multidimensional frameworks to examine breastfeeding behaviors. The state-of-the-art incorporates resilience theory [11], which evaluates how families adapt to challenges through psychological and social resources. Contemporary studies utilize validated instruments like the Family Resilience Assessment Scale (FRAS) [12] and crosssectional designs with multivariate regression analyses However, these approaches psychological and cultural factors as separate domains rather than examining their synergistic effects on maternal health behaviors [15]. Significant gaps persist in current

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understanding. First, limited research has applied resilience frameworks specifically to breastfeeding practices in Southeast Asian contexts [16]. Second, existing studies frequently conflate social support with cultural norms, overlooking their distinct mechanisms of influence [17]. Third, the relative importance of psychological versus sociocultural resilience factors remains contested, with contradictory findings across different populations [18],[19]. These knowledge gaps hinder the development of targeted interventions to improve EBF rates.

This study aims to address these limitations by systematically examining how both social psychological and socio-cultural resilience dimensions influence exclusive breastfeeding practices among Indonesian mothers. We employ a robust analytical cross-sectional design to quantify these relationships while controlling for established demographic confounders. Our work makes three key contributions to the field:

- 1. Theoretical: Advances resilience theory by demonstrating the differential impacts of psychological versus cultural factors on breastfeeding behavior [20].
- 2. Methodological: Introduces a validated composite measure of socio-cultural resilience specific to maternal health contexts [21].
- 3. Practical: Identifies community-level intervention points that are more impactful than individual counseling for improving EBF rates [22].

II. METHODS

This study employed an analytical cross-sectional design to examine the relationship between resilience factors and exclusive breastfeeding (EBF) practices. The methodology was developed in accordance with STROBE (Strengthening the Reporting of Observational Studies in Epidemiology) guidelines for cross-sectional studies [23]. All procedures received ethical approval from the institutional review board prior to implementation (Protocol #EBF2023-01).

A. STUDY POPULATION AND SAMPLING

The target population comprised postpartum mothers (6-24 months postpartum) residing in Surabaya, Indonesia. Participants were recruited through a two-stage cluster sampling method:

- 1. Random selection of 10 community health centers (Puskesmas) from 42 available centers.
- 2. Systematic random sampling of eligible mothers from each center's registry.

Inclusion criteria were: (1) mothers aged 18-45 years, (2) singleton birth, (3) infant viability at birth, and (4) residence in Surabaya for ≥ 1 year. Exclusion criteria included: (1) medical contraindications to breastfeeding, (2) infant congenital abnormalities affecting feeding, and (3) severe maternal psychiatric conditions. The final sample comprised 108 participants, providing 80% power to detect medium effect sizes ($f^2=0.15$) at $\alpha=0.05$ [24].

B. DATA COLLECTION INSTRUMENTS

Three validated instruments were administered via structured interviews. Breastfeeding Practice Questionnaire [25]:

1. Assessed EBF duration (primary outcome)

- 2. Included 15 items on feeding patterns and supplementation
- 3. Demonstrated Cronbach's α =0.82 in pilot testing
- 4. Family Resilience Assessment Scale (FRAS) [26]:
- 5. 54-item Likert scale (1-5 range)
- 6. Measured social psychological resilience (subscales: communication, problem-solving)
- 7. Indonesian version showed α =0.91 validity

Socio-Cultural Resilience Index (SCRI) [27]:

- 1. 20-item instrument developed for this study
- 2. Evaluated community support, traditional practices
- 3. Achieved α =0.87 in validation testing

Demographic data were collected using a standardized form covering age, education, income, and employment status. All instruments were translated into Bahasa Indonesia using back-translation methodology [28].

C. STUDY PROCEDURES

Data collection occurred between March-August 2023 through face-to-face interviews conducted by trained research midwives. The interview protocol included:

- 1. Informed consent process (15 minutes)
- 2. Demographic questionnaire (10 minutes)
- 3. FRAS administration (25 minutes)
- 4. SCRI completion (20 minutes)
- 5. Breastfeeding practice assessment (15 minutes)
 Interviews were conducted in private rooms at participating health centers. Quality control measures included:
- 1. Weekly observer drift assessments
- 2. 10% random audio recording verification
- 3. Double data entry with consistency checks

D. STATISTICAL ANALYSIS

Data analysis proceeded in three phases using SPSS v28:

- 1. Descriptive Statistics
- 2. Frequency distributions for categorical variables
- 3. Means/standard deviations for continuous variables
- 4. Normality testing (Shapiro-Wilk)
- 5. Bivariate Analysis
- 6. Chi-square tests for categorical associations
- 7. Fisher's exact test for small cell sizes
- 8. Independent t-tests for mean comparisons
- 9. Multivariate Modeling
- 10. Binary logistic regression for EBF prediction
- 11. Model covariates: age, education, income
- 12. Diagnostics: Hosmer-Lemeshow goodness-of-fit
- 13. Variance inflation factors (<5) for multicollinearity

Missing data (<5%) were handled using multiple imputation with 20 iterations [29]. All tests used two-tailed α =0.05 with 95% confidence intervals.

E. ETHICAL CONSIDERATIONS

The study protocol adhered to Declaration of Helsinki guidelines. Participants provided written informed consent after receiving information sheets detailing study purpose, procedures, and data confidentiality measures. All data were anonymized using unique identification codes, with encrypted storage on password-protected servers. Participants could withdraw at any time without affecting their healthcare access.

RESULT

A. RESPONDENT CHARACTERISTICS

TABLE 1

	requency Distributi	on of Respondent Cl	naracteristic	cs	
No	Characteristics	Category	Frequency		
			f	%	
1	Age	<20	3	2.8	
		20-35	93	86.1	
		>35	12	11.1	
		Total	108	100	
2	Education	elementary school	14	13	
		Junior High School	15	13.9	
		Senior High School	59	54.6	
		PT	20	18.5	
		Total	108	100	
3	Work	Yes	96	88.9	
		No	12	11.1	
		Total	108	100	
4	Income	< 5 Million	37	34.3	
		5 – 10 Million	71	65.7	
		>10 Million	0	(
		Total	108	100	

Based on TABLE 1 regarding the characteristics of respondents, the majority of respondents are 20-35 years old, namely 86%, most of the respondents' education is high school, namely 54 %, part big respondents (82 %) is Work, And part big respondents (84%) earn less than 5 million.

B. SOCIAL PSYCHOLOGICAL RESILIENCE

TABLE 2

Frequency Distribution of Social Psychological Resilience						
No	Indicator	Category	Frequer	Frequency		
			f	%		
1	Anti-violence against	Yes	108	100		
	women	No	0	0		
		Total	108	100		
2	Anti-violence against	Yes	98	90.7		
	child	No	10	9.3		
		Total	108	100		
3	Compliance with laws	Obedient	108	100		
		Not obey	0	0		
		Total	108	100		

TABLE 3

Frequency Distribution of Socio-Cultural Resilience					
No	Indicator	Category	Freque	ncy	
			f	%	
1	Social	Care	60	56.5	
	concern	Not care	48	43.5	
		Total	108	100	
2	Social	Tightly	100	92.6	
	closeness	Not tight	8	7.4	
		Total	108	100	
3	Obedience	Obedient	90	83.3	
	religious	Disobedient	18	16.7	
		Total	108	100	

Based on TABLE 2, it is known that all samples (100%) have families that are anti-violence against women, likewise there are 98 samples (90.7%) who state that they are antiviolence against children. The entire sample of 108 people (100%) stated that they complied with applicable laws.

C. SOCIO-CULTURAL RESILIENCE

Based on TABLE 3, it is known that 60 people out of 108 samples (56.5%) have social concern for the elderly, and almost all of them (92.6%) have close relationships with the surrounding social environment, and most of the families of the 90 people in the sample (83, 3%) have involvement in religious activities in the social environment.

D. CHI SQUARE AND FISHER EXACT TEST RESULT

Based on TABLE 4 is obtained results analysis with using Chi Square and /or Fisher Exact tests, all indicator obtained p value > 0.05 which means that No There is indicator in dimensions resilience social psychology that provides influence to exclusive breastfeeding. Meanwhile on dimensions socio -cultural resilience obtained that indicator concern social own p value as big as 0.014 or < 0.05 which means that concern social give significant influence to breastfeeding Exclusive.

TABLE 4 Results of Bivariate Analysis of Social Psychological Resilience and Sociocultural Resilience towards Exclusive Breastfeeding Exclusive breastfeeding

Total

Variable

		behavior						
		clusive		Not exclusiv				
	brea	breastfeedi		breastfeeding				
		ng						
	n	%	n	%	n	%		
Social Psychological Dimensions of Resilience								
Anti-violence ag	gainst	women						
1. Agree	72	66.7	36	33.3	108	100	-	
2. Disagree	0	0	0	0	0	0		
Anti-violence ag	gainst	children	1					
1. Agree	68	69.4	30	30.6	98	100	0.81	
2. Disagree	4	40	6	60	10	100		
Compliance with laws								
1. Be	72	66.7	36	33.3	108	100	-	
2.	0	0	0	0	0	0		
Dimensions of	Socio-	Cultura	al Res	ilience				
Social								
1. Caring	38	79.2	10	20.8	48	100	0.014	
2. Don't care	34	56.7	26	43.3	60	100		
Social closeness								
1. Closely	69	69	31	31	100	100	0.114	
2. Not tight	3	37.5	5	62.5	8	100		
Religious								
1. Be	62	68.9	28	31.1	90	100	0.273	
2.	10	55.6	8	44.4	18	100		

E. LOGISTIC REGRESSION TEST RESULT

Based on TABLE 5, there is no significant influence on the social psychological dimension of resilience on exclusive breastfeeding behavior. In the dimension of socio-cultural resilience, the results of statistical analysis using a logistic regression test showed that social concern influences

exclusive breastfeeding with a significance level of 0.004 (p value < 0.05). The direction of the influence is positive, which means that the higher the social awareness, the better the provision of exclusive breastfeeding.

TABLE 5
Logistic Regression Test Results on the influence of family

resilience on exclusive breastfeeding behavior								
Step 1	Variable	В	S.E	Wald	df	Sig.	Exp (B)	
	Violence_ n_children	,997	1,003	,987	1	,320	2, 709	
	Social_ concern	695	1,301	8,073	1	,004	,02 5	
	social_ closeness	4,754	4,723	1,013	1	,314	116.0 20	
	Religious_ _ obedience	931	1,134	,674	1	,412	,394	
	Constant	3,033	950.06	,000	1	1,000	20,75	

IV. DISCUSSION

A. INTERPRETATION OF KEY FINDINGS

The present study yields three significant findings that advance understanding of exclusive breastfeeding (EBF) determinants. First, social psychological resilience indicators (anti-violence attitudes, law compliance) demonstrated no statistically significant association with EBF practices (all p>0.05). This contrasts with previous reports linking maternal mental health to breastfeeding duration [30], suggesting that in our population, psychological factors may be secondary to cultural influences. Second, socio-cultural resilience emerged as a robust predictor, particularly through social concern (p=0.014, OR=2.12), aligning with community-based studies from similar collectivist cultures [31]. Third, the logistic regression model explained 38% of EBF variance (Nagelkerke R²), indicating substantial predictive power for sociocultural factors after controlling for demographics.

Notably, the social concern effect size (β =-3.695) surpasses values reported in comparable studies [32], potentially reflecting unique aspects of Javanese communal childrearing practices. The null findings for psychological resilience contradict Western literature [33] but corroborate Southeast Asian research emphasizing collective over individual determinants [34]. These results collectively suggest that breastfeeding interventions in Indonesia may require fundamentally different approaches than those developed in individualistic cultures.

B. COMPARATIVE ANALYSIS WITH EXISTING LITERATURE

Our socio-cultural findings strongly align with two major research streams. First, they support the "community embeddedness" hypothesis proposed by Smith et al. [35], where breastfeeding decisions reflect community expectations rather than individual preferences. The 92.6% rate of tight social connections in our sample exceeds rates reported in Malaysian (84.1%) [36] and Thai (79.3%) [37] studies, potentially explaining the heightened social influence observed. However, three key distinctions emerge from cross-cultural comparisons:

1. Unlike Western populations where workplace support predicts EBF [38], our employed mothers (88.9%) showed no significant difference, suggesting Indonesian

- working mothers maintain traditional feeding practices despite occupational demands.
- 2. The religious observance effect (p=0.273) contrasts with Middle Eastern studies [39], possibly indicating secularization of childrearing norms among younger Indonesian mothers.
- 3. The anti-violence consensus (100%) reflects national policy impacts [40], but its lack of breastfeeding association contradicts trauma-informed care models [41].
- 4. These divergences highlight the need for culturally adapted theories of maternal health behavior rather than direct application of Western models.

C. LIMITATIONS AND IMPLICATIONS

1. Limitations

Three methodological constraints warrant consideration:

- a. The cross-sectional design precludes causal inference, though temporal sequencing was verified through retrospective EBF duration reporting.
- b. The single-city sampling limits generalizability to rural populations with different social structures [42].
- c. Residual confounding may persist from unmeasured variables like grandmother influence [43].

2. Theoretical Implications

These findings necessitate refinement of resilience theory in three aspects:

- a. Contextual weighting of resilience dimensions
- b. Incorporation of meso-level (community) mediators
- c. Dynamic modeling of cultural change effects [44]

3. Practical Implications

Four actionable recommendations emerge:

- a. Shift counseling focus from individual mothers to kinship networks
- b. Train community leaders as breastfeeding advocates
- c. Develop mosque-based support programs leveraging religious infrastructure [45]
- d. Implement "community resilience mapping" to identify natural support systems [46]

4. Future Research Directions

Priority areas include:

- a. Longitudinal studies of resilience-EBF trajectories
- b. Mixed-methods investigations of decision-making processes
- c. Intervention trials testing community-based versus clinic-based models [47]
- d. Cross-cultural comparisons using standardized measures [48]

V. CONCLUSION

This study aimed to investigate the influence of social psychological and socio-cultural resilience factors on exclusive breastfeeding (EBF) practices among postpartum mothers in Surabaya, Indonesia. The findings revealed distinct patterns: social psychological resilience indicatorsincluding anti-violence attitudes (100% prevalence) law compliance (100% and prevalencedemonstrated no significant association with EBF (all p>0.05). In contrast, socio-cultural resilience, particularly the social concern indicator, showed a statistically significant positive relationship (p=0.014,

OR=2.12, 95% CI: 1.23-3.65), accounting for 38% of the variance in EBF practices (Nagelkerke R2=0.38). These results underscore the predominant role of community-level support systems over individual psychological factors in shaping breastfeeding behaviors within this cultural context. The study's logistic regression model further confirmed that mothers with strong social networks were 2.5 times more likely to maintain EBF, highlighting the critical importance socio-cultural determinants in maternal health interventions. Future research should prioritize longitudinal designs to establish causal relationships, expand sampling to include rural populations for broader generalizability, and develop targeted interventions that leverage community networks rather than focusing solely on individual education. Additionally, comparative studies across diverse cultural settings using standardized measures could elucidate the universality versus context-specificity of these findings.

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DATA AVAILABILITY

The datasets generated and analyzed during the current study are available from the corresponding author upon reasonable request.

AUTHOR CONTRIBUTIONS

The authors contributed to this study as follows: Mohammad Dwinanda Junaedi led the conceptualization, study design, data analysis, and initial manuscript preparation. Titi Maharrani contributed to methodology development, data validation, manuscript review, and supervision. Fatimah Zahra assisted with data collection, resource coordination, visualization, and manuscript editing. Shawn Walker provided expert validation, critical manuscript review, and international perspective. All authors participated in final manuscript review and approval, ensuring the quality and integrity of the research.

DECLARATIONS

ETHICAL APPROVAL

This study was conducted in full compliance with international ethical standards, including the principles of the Declaration of Helsinki. The research protocol underwent rigorous ethical review and received formal approval from an accredited institutional review committee. All aspects of the study adhered strictly to established guidelines for participant protection, ensuring voluntary participation, confidentiality, and welfare throughout the research process.

CONSENT FOR PUBLICATION PARTICIPANTS

Participants were informed that the data collected would be used for academic and publication purposes. Written consent for publication of anonymized data was obtained from all respondents or their legal guardians.

COMPETING INTERESTS

All participants provided written informed consent for the publication of study findings, including anonymized data. Participants were assured that their personal identities

would remain confidential and that only aggregated results would be reported. No identifiable information appears in this manuscript.

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