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Health Issues

Instrument of Inequality in Accessibility of Maternal and Child Health Services, for early detection of stunting: Cross-Sectional Study

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ABSTRACT

Inequality of access to health services (health inequalities) triggers differences in the quality of services to vulnerable groups (mothers and children), which increases the risk of stunting. This risk is higher in poor families. The purpose of this study was to create a valid and reliable instrument to measure differences in access to maternal and child health services. The design of this study was case-control study with a retrospective cohort design, with the matching variables in the case group are poor families, the inclusion criteria are not having their own home, daily worker status, having children aged 0-23 months, registered as recipients of social assistance from the local villages. The inclusion criteria for the control group were poor families who did not have stunting children. The sample size in each group was 90 people. Statistical analysis used the Cronbach Alfa test. The results of the study found that the mother's education was generally high school in the control group and junior high school in the case group, respectively 44.4% and 33.3%. Mother's occupation is the informal sector in the control and case respectively 95.6%. Stunting between 33.3% -40% in poor families is higher in those who experience inequality in access to maternal and child health services. The results of the analysis of validity and reliability are known to have the value of Cronbach Alfa = 0.67 (Valid & Reliable). Conclusion access to maternal and child health services can be measured using the instrument. The suggestion is that this instrument can be used for the early detection of stunting risk in poor families.

Keywords: Inequality, Access, Poor, Stunting

INTRODUCTION

Inequality of access to maternal and child health services affects the magnitude of the risk of stunting in children. The more imbalanced access to maternal and child health services, the greater the gap in health services in maternal and child health services, childbirth, immunization, growth monitoring and child feeding.(Gostin şi Friedman, 2020), (Gunther Fink *et al.*, 2017a, 2017b; Hosseinpoor, Nambiar şi Schlotheuber, 2018; Gatica-Domínguez, Victora şi Barros, 2019)

Stunting is still high in Indonesia, South Sulawesi and Makassar City, respectively, 30.8%, 36%, and 30%. Data at the Makassar City Health Office, in 2020 stunting reached % in 53 Puskesmas. This number is concentrated in densely populated areas in Makassar City, especially from urban poor families. All Puskesmas have dense and poor residential areas. One of the knowledge gaps related to inequality in access to maternal and child health services with stunting is the unavailability of a valid and reliable instrument to measure the potential inequality in access to health services. This instrument is needed for early detection of stunting risk because with a valid and reliable instrument the potential risk can be known long before stunting appears as a symptom of the failure to thrive.(Mohammed *et al.*, 2019; Rizal şi van Doorslaer, 2019a)

This study identifies potential inequality in access to health services and their impact on stunting in children from poor families in Makassar City. This study investigates the forms of inequality in access and how to overcome them. This study measures the magnitude of the risk of stunting in children, if poor families do not have sufficient access to maternal and child health services in the first thousand days of The 3rd International Conference on Urban Health, The Covid-19 Pandemic and Urban

Health Issues

life.(Shanti Mendis, Keiko Fukino, Alexandra Cameron, Richard Laing, Anthonio Filipe Jr şi Jerzy Leowski & Margaret Ewene, 2007), (Rizal şi van Doorslaer, 2019b)

The purpose of this study is to establish a valid and reliable instrument in measuring access to inequality in maternal and child health services.

METHOD

Study Design

This study was a case-control study, with a retrospective cohort design. The case group was stunted children from poor families and the control group was non-stunted children from poor families. Observations were made on discriminatory treatment and inequality in access to maternal and child health services from pregnancy to 24 months of age through interviews. This research has received approval from the Makassar Health Polytechnic Ethics Commission Number: No. : 0034 / KEPK-PTKMKS/ II /2021



Setting

The research sites are 12 Public Health Centers in Makassar City. The selection of points is determined as densely populated areas with the number of poor families reaching 30% based on the list of beneficiaries of the 2020 Family Hope Program (PKH) assistance. Time of the research. The first year is August to October 2021. Before data collection, the following were carried out: (1) Enumerator training, conducted February 26, 2021, located at the Gazebo of the Department of Nutrition at the Health Polytechnic of Makassar,

Study Size

The sample size is the number of mothers who will be respondents in this study calculated based on the formula by Standly Lameshow (1997). The sample size formula for the two-sample proportion test with a significance level of 5%, Power Test 80%, a two-tailed alternative hypothesis is: $n = \frac{\{z1 - \alpha/2\sqrt{[2P2(1-P2)]} + z1 - \beta 1\sqrt{[1-P1) + P2(1-P2)]}\}^2}{(P1 - P2)^2}$

Information, = Normal distribution probability at 5% significance confidence, = 80% power test, P1 = proportion of stunted children under five in the Case group, used 10% and P2 = proportion of stunted children under **five** in the control group, used is 30% (Study of pregnant women in the City Makassar Year 2019). Based on the figures above, the sample size is 82 + 8.2= 90 case groups and 90 control groups. The total sample is 180 mothers who have children aged 0-24 months (Figure 1)

Variable

The outcome variable in this study is inequality in access to maternal and child health

the number of participants was 12 people (2) Coordination Meeting of Field Officers with Enumerators, held on March 10, 2021, at each Public Health Centers by each person in charge of the field. This meeting aims to map the areas and targets of poor families in each Puskesmas. (3) Field officers are nutritionists at the Public Health Services (PHC) with 12 people and Enumrarors are alumni of nutritionist has as many as 12 people. Divided into 6 teams, each team consists of 2 people to facilitate anthropometric measurements

services. Inequality in access to health services is defined as a comprehensive score of health services and the number of indicator items, respectively, for maternal and child health services (12), childbirth (3), immunization (4), growth monitoring (3), child feeding (8), social support (5), social influence (7), social cohesion (8), access to health services (5) and stunting (HAZ).

Data sources and Measurement

Sources of health service data, through interviews. while stunting data through anthropometric measurements. Interviews were conducted directly with the application of health protocols in the context of preventing the transmission of COVID-19. The use of masks and social distancing was applied by enumerators and respondents. Anthropometric measurements are carried out to ensure that the anthropometric tools are sterile by cleaning after each measurement, only measuring height with a the length board made of fibre. Enumerators are provided with hand sanitisers and masks both for themselves and for measuring subjects and

respondents. ..

Bias

The source of the bias in this study generally comes from the recall bias towards a long history of access to maternal and child health services, even though currently access to health services is better. The selection of subjects from the list of Social Safety Net (SSN) recipients in each location is not updated because the change in population status in Makassar is very dynamic. These two sources of bias are minimized through validation to health centre nutrition officers who know the subject more closely and are up to date. Subjects who do not match even though they are registered as beneficiaries are excluded if the validation results do not meet the criteria.

Statistical Analysis

Validity analysis using Pearson's test of correlation of all question items with the total score of all items. If the P-Value Pearson correlation <0.05, then the item is declared valid. Reliability analysis with Cronbach Alfa reliability test. Only valid items were included in the reliability analysis. The instrument is declared reliable if the value is > 0. 6, at the 95% confidence level.

RESULTS AND DISCUSSION

Educational characteristics of mother, father, occupation of mother, father, and sex of the child in Table 1. The distribution of children's education, occupation and sex between case and control groups is the same as the respective significance values. Based on the results of Table 2. The instrument validity test was carried out with a total of 53 items. The results showed that the validity of this instrument was very good because it only issued 9 items with a significance value > 0.05. The number of valid items is 44 of

53. The following Reliability testing used the Cronbach's Alfa is 0,67 (67%) see Table 3.

Table 1. Characteristics of Subject

Characteristic of the subject were majority level education high school both mother and father (see Figure 1);

Subject Characteristics	Control n(%)	Case n(%)
Mother's Education		
Never school	3(3.3)	4(4.4)
Primary school	21(23.3)	17(18.9)
Junior school	18(20.0)	18(33.3)
High School	40(44.4)	29(32.2)
University	8(8.9)	30(11.1)
Father's Education		
Never school	2(2.2)	7(7.8)
Primary school	16(17.8)	18(20.0)
Junior school	19(21.1)	18(20.0)
High School	43(47.8)	45(50.0)
University	10(11.1)	2(2.2)
Mother's occupation		
Informal sector	4(4.4)	0(0)
Entrepreneur/trade	26(28.9)	24(26,7)
labourer	60(66.7)	66(73,3)
Father's occupation		
Informal sector	86(95,6)	86 (95,6)
Entrepreneur/trade	4(4,4)	3(3,3)
laborer	0(0)	1 (1,1)
Child Gender		
Girl	47(52,2)	40(44,4)
Boys	43(47,8)	50(55,6)

Validity and reliability instrument in this studi

Table 2. Testing validity for across items instrument

No of an item for assessing	r (p-Value)
inequalities	

1110	child health	
1	Were you checked for pregnancy	0,370
	by a midwife or other health	(0,000)*
	workers? $1 = Yes; 0 = No$	
2	If you were examined, did you go	0,369
	to the officer? [1= Yes][0=No]	(0,000) *
3	When you were examined, where	0.010
-	was the inspection place?	(0.896)
	[1= Posvandu] [2= Mother's house	(0,0)0)
	/ Mother's place of residence]	
	[3= Place of practice][4= Health	
	Center] $[5 = Maternity$	
	Hospital/Mother and Child]	
4	Is the pregnancy check-up place	0 273
•	crowded? $[1 = Yes][0=No]$	(0,000) *
5	Did you get a queue number or	0.202
5	not? $[1 - \text{Ves}][0 - \text{No}]$	(0.007) *
6	Is the mother known by the	0.352
0	examining officer [1- Ves]	(0,000)
	$0-N_0$	(0,000)
7	If you are not known, do you feel	0.168
/	that you have been served the	(0,100)
	same as other mothers? [1- Vas][(0,099)
	same as other moments: $[1 - 1es][$	
0	U=NO]	0.276
ð	bo you pay for the pregnancy	0,370
0	check-up? [1= res][0=No]	(0,000) *
9	If yes, do you think the fee is too	0,523
10	expensive? [1= Yes][0=No]	(0,000) *
10	If you have to choose, do you	0,028
	want free pregnancy check-ups?	(0,708)
11	[1=Yes][0=No]	NT A
11	was the mother given Blood Add	NA
10	tablets $(1 = Y es)[U=No]$	0.400
12	If given, did you pay for the	0,400
	Blood Add Tablet? [1= Yes][(0,000) *
r		
Ineq	uality in access to delivery	0.660
13	Birthplace; [1= Maternity	0,660
	Home][2= Hospital][3= PHC][4=	(0,000) *
	Midwife Practice][5= own house]	
14	Who suggested you choose a	0,677
	place to give birth; $[1 = a close]$	(0,000) *
	friend or close relative][2=in-law	
	or husband][3= own desire]	
	Do you feel that the delivery place	0,067
15	Do you leer that the derivery place	,
15	is far away?;[1=Yes][0=no]	(0,377)
15 Ineq	is far away?;[1=Yes][0=no] uality in access to immunization	(0,377)
15 Ineq s	is far away?;[1=Yes][0=no] uality in access to immunization ervices	(0,377)
15 Ineq <u>s</u> 16	is far away?;[1=Yes][0=no] uality in access to immunization ervices Have your children been	-0,113

17	Where is your child immunized?	-0,044
	[1 = Maternity Home][2 = Hospital][3 = PHC][4 = Midwife	(0,568)
	Practice [[5= own house]]	
18	Who suggested you choose the	-0.018
	place of immunization; [1= a close	(0,815
	friend or close relative; 2=in-law	
	or husband]	
Ineq	quality in access to growth	
<u> </u>	nonitoring services	0.000
19	Do your children have growth	0,889
20	chart? [1. Yes, $0 = no$]	(0,000) *
20	is your child weighed on this months?	0,851
	Last year 2000	(0,000)
	[1][2][3][4][5][6][7][8][9][10][11]	
	[12]	
	This year 2021	
	[1][2][3][4][5][6][7][8][9][10][11]	
21	[12] If not weigh what is the mother's	0.776(0.000)
21	general reason	*
Inec	muality in access to children's	
f	eeding services	
22	Have your children ever been	0,205
	malnourished? [1. Yes, $0 = no$]	(0,006) *
23	If so, have you ever been given a	0,300
	free food programs?[1= Yes; 0= No]	(0,002) *
24	If not, are you registered as a	0,217
	target recipient of Social	(0,005) *
	Assistance?	
	1= Yes; 2= No; and 3= Doubtful	
25	Have you ever received Cheap	0,046
26	Rice Aid $? [1=Yes; 0=No]$	(0,554)
20	1 - aven though it's cheap but	(0,017)
	doesn't always get a share	(0,034)
	2 = even though it's cheap. we	
	can't afford it	
	3= cheaper rice at the stall or	
	market	
27	Is the mother's family the	0,882
	recipient of the Family Hope	(0,000) *
•	Program? 1= Yes; 0= No	0.002
28	If yes, how many times a year do	0,093
20	What kind of social safety net that	0.603
27	vou're accepting	(0,000) *
500	CIAL SUPPORT	(0,000)
29	I feel that all the costs of social	0,265
	services, whether at the village	(0,000) *
	2	261

	head office or the PHC, I can	
	afford to pay	
30	I feel that we are still very limited	0,159
	in getting the support of	(0,033) *
	neighbours if we need help with	
	living expenses	
31	All information on health or	0,498
	population services such as ID	(0.000) *
	cards, childbirth certificates. I have	(-,,
	been able to access for free	
32	I am still reluctant to ask for help	0.509
02	from health workers if there are	(0,000) *
	health complaints	(0,000)
33	I am still reluctant to ask the RT for	0 509
55	help if there are economic	(0,000) *
	difficulties	(0,000)
34	I believe all my neighbours are alive	0 364
54	nlesse heln	(0,000) *
35	We always feel close to each other	0.419
55	in the neighbourhood	(0,000) *
500		(0,000)
36	If there is a calabration in our	0.428
50	neighbourhood, we receive come	(0,000) *
27	Normal kinghin is highly respected	(0,000)
57	in our home environment	(0,000) *
20	Tired of waiting for your turn when	(0,000)
20	The of waiting for your turn when	0,382
20	Least the last turn in array health	(0,000) *
39	I get the last turn in every health	0,557
10		(0,000) *
40	Health workers, prioritize	0,400
	acquaintances over strangers when	(0,000) *
	serving patients	
41	During pregnancy, I did not get Free	0,444
	Supplementary Food	(0,000) *
SOC	CIAL ENGAGEMENT	
42	I always participate when there is a	0,832
	mother-to-five group activity	(0,000) *
43	I have a special task or administrator	0,464
	in the mother-to-five class group	(0,000) *
44	I am not a member of my mother's	0,368
	class	(0,000) *
45	We always hold a mother's class	0,827
	meeting every two months	(0,000) *
46	We already know each other in	0,934

10</th

49	I am not well known by the health	0,545
	workers at the PHC	(0,000) *
50	I find it difficult to get antenatal care	0,447
	services during pregnancy	(0,000) *
51	There are too many pregnancy	0,500
	check-ups at the PHC	(0,000) *
52	Tired of waiting for your turn while	0,587
	queuing at the checkpoint	(0,000) *
53	I got the last turn in every health	0,379
	check	(0,00) *

*Significant P-Value <0,05 based on Pearson Correlation 95%.

Table 03.	The item's	validity is	based on	correlation
person val	ues			

Va	riable	Items Valid	Cron- bach Alfa
1.	Inequalities in	1,2,4,5,6,8,9	0,670
	pregnant and child services	, and 12	
2.	Inequalities in delivery	15	
3.	Inequalities in		
	immunizations		
4.	Inequalities in	19, 20, 21	
	growth		
-	monitoring	22	
5.	Inequalities in	22,	
	the feeding	23,24,26,	
	program	27, 28	
6.	The social	29, 30,	
	supporting	31,33,34,35	
7.	The social	36, 37,	
	influencing	38,39,40,41	
8.	The social	42,	
	engagement	43,44,45,46,	
		47,48,	
9.	Accessibility in	49, 50,	
	primary health	51,52,53	
	services		

Discussions

One hundred eighty (180) out of 336 mothers met the inclusion criteria in this study. Divided into 90 cases and 90 controls. The results of the validity test on questions on 180 subjects were 44 out of 53 items which were declared valid with a significance of <0.050. The results

of the reliability test show that the Cronbach Alfa value is 0.670 which can be said that this instrument is reliable. Although immunization is an important variable, all items cannot be valid or excluded from the instrument. This is because the immunization package for all subjects is relatively evenly distributed.

Health care during pregnancy is believed to be the most important point in the first thousand days of life. This period is the period in which early detection of pregnancy disorders and distribution of folic acid supplements. If this period is not served properly, it will put the baby at risk of stunting (Nisar, Dibley și Aguayo, 2016), (Upadhyay și Srivastava, 2016), (Adu-Afarwuah et al., 2016). The reason is that all packages provided during this period in Indonesia are only available for regular services. Immunization services for children in Indonesia are very wide, there is no disparity between rich and poor, so this variable is not a source of disparity in health services.(Widayanti et al., 2020)

The case of monitoring child growth in Indonesia is still very varied. This variable is one of the variables to be measured if you want to explore inequality in access to maternal and child health services. This activity is also an effective and sustainable promotion platform for stunting prevention.(Paul Garner, Ratana Panpanich, 2000). (Connor şi Manary, 2011), (Claus Bohn Christiansen, Jan Albert, Roberto Machuca, 1997), (Günther Fink *et al.*, 2017)

The child feeding program in Indonesia is a regular package. The conditions needed are poor families and the status of malnourished children. Although this is rehabilitation, it is believed to be able to reduce the rate of increase in cases of malnutrition including stunting.(Inoue *et al.*, 2012; Mukhopadhyay *et al.*, 2013; Aguayo şi Menon, 2016; Mirkovic *et al.*, 2016), (Sirajuddin *et al.*, 2020)

Social support is important for the distribution of various resources in the community to the poor. Social support, either as a cultural product or designed by the government, is needed for service fairness. (Reeves et al., 2006). Social influence is very difficult to measure, but it is important because it affects the family burden. If inequality occurs because of social influences, it is important to have an educational process on the issue of equal rights. If the opposite condition where equality of rights has become a value, then it will turn into variable protection.(Siagian et al., 2019)

Social engagement is important as a shared control over inequality. This is the active nature of individuals to participate in activities in public spaces. Indonesia is very concerned about issues like this. This study finds evidence that social involvement is a variable measured in the study of inequality in access to maternal and child health services.(Webb Girard et al., 2020). Basic health services are services that reach the entire community. This service is important to measure because it is directly related to the health status of mothers and children. If this service is good, the morbidity and mortality rates can be reduced. This means that the risk of stunting can be controlled.(Syam și Jafar, 2012), (Wakerman *et al.*, 2019)

The generalization of this study is that inequality in access to maternal and child health services can be measured precisely. This instrument is valid and reliable, especially in Indonesia. Early detection of stunting can be known if the score of this instrument is low. The limitation of this study is the recall bias so that ideally inequality in access to health services is measured directly through surveillance of access to maternal and child health services. The 3rd International Conference on Urban Health, The Covid-19 Pandemic and Urban Health Issues

The form of inequality in health services is in delivery services, growth monitoring and child feeding packages. The distribution of stunting among those who experience discrimination in maternal and child health services is higher than those who do not experience discrimination. This instrument can be used to study inequality in access to maternal and child health services for early detection of stunting risk.

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