LIFE: International Journal of Health and Life-Sciences ISSN 2454-5872

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Special Issue Vol. 3 Issue 1, pp. 14 - 28

Date of Publication: 16th January, 2017

DOI-https://dx.doi.org/10.20319/lijhls.2017.31.1428

This paper can be cited as: Anggraini, D. (2017). The Effect of Breast Milk toward Children's Growth: A

Systematic Review. LIFE: International Journal of Health and Life-Sciences, 3(1), 14 - 28.

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THE EFFECT OF BREAST MILK TOWARD CHILDREN'S GROWTH: A SYSTEMATIC REVIEW

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Abstract

Exclusive breastfeeding is breast milk consumption as early as can after the birth/delivery. The breast milk is given without schedule. The baby also doesn't get any others food, include plain water until the age of 6 months. Many researcher have shown that breastfeeding is really important to the growth of a child. The breastfeeding will be able to decrease the number of stunting problem and obesity on children. The purposes' of the research is to give the right information about breastfeeding exclusively in order to improve the quality growth of the children. The method of the research is systematic review by searching on some database such as: Google Scholar, EBSCO and Pro-Quest. The result of this systematic review shown that in many countries breastfeeding exclusively since 0-6 months is really important for the growth of children. From many characteristics, we found that breastfeeding exclusively in the age of 0 to 6 month has a significant impact to the growth of the children.

Keywords

Breastfeeding, Growth Child, Stunting, and Stunting Food

1. Introduction

Exclusive breastfeeding is giving milk to the baby in the age of 0-6 month. Breast milk is given as early as can to the baby after delivering. Breast milk is given without a schedule. The baby also doesn't get another food except breast milk in that period (Depkes RI, 2014). Only one third of Indonesian people exclusively do breastfeeding to their baby. There are so many obstacles to give breastfeeding in Indonesia. They come from some relatives or even doctor. Some mothers are afraid that breastfeeding will be painful and un-practical, but the biggest obstacle is the problem in understanding the term and meaning of the obstacle.

For example in Aceh, as the region which is the biggest number of stunting babies in Indonesia, they have awareness in consuming breast milk but actually the problem is in the way they mean terminology of "exclusive". They give breast milk to their babies but also they give banana and honey. They believe the baby needs others food to feel full. The promotion in consumption breast milk well through primary health service is really needed. Consuming breast milk in 6 months well is necessary to decrease growth disorders in baby (UNICEF, 2016).

Based on the information from UNICEF, in neonatal service, the breast milk consumption in the world is still low such as in Nigeria, Somalia, Chad and South Africa. In Indonesia and Tunisia the breast milk consumption is decreasing. In china, the demand of formulation milk increases and attracting the attention of press. Because of that, in some countries for examples Australia and England. It is contradictive with Cambodia, Togo and Zambia. In those countries the stock are increasingly moving.

The research uses systematic review because even the government has decided to succeed the program of exclusive breast milk for 6 months. The program hasn't been achieved maximally. The breast milk consumption has a positive impact to the growth of the baby. But there are many mothers give breast milk but un - exclusively. Event worst they replace the breast milk at all. Breast milk is replaced by formulation milk. The Government Promote program of exclusively breastfeeding because breastmilk the most effective way and the cost to save a child's life.

The research has shown that breast milk is really important to the growth of the children in the future. It even can decrease the number of stunting problem and obesity (Pudla, 2015). Some research has shown contrary result. The research showed that the breast

milk doesn't have a significant impact to the growth of the children. The result of the systematic review on this research will give us much knowledge about giving breast milk to baby. So the growth of the children will be better and better.

2. Methodology

2.1 Data Collecting Strategy

The sources and references on this systematic review come from some literatures and they be taken by downloading from the Internet. The data are the result of some research about exclusive breast milk and children growth. The data of the research are taken from the period of 2011 to 2016 via Google scholar, EBSSO and ProQuest. The key word of the searching are: breastfeeding, Child Growth, Stunting and also between breastfeeding and stunting. And we got many data related to those key words.

2.2 The Selection of the Studies

In this *systematic review*, they are some requirements should be fullfilled: (1) The research could be qualitative or quantitative research. (2) the research is full text research. (3) the research has been published since 2011 till 2016. (4) the research is about the impact of exclusive breastfeeding, (5) the key word is the *document title*.



2.3 Data Management

The researcher only takes some information which is match to the requirements, such as: (1) General Information: author, year, research location, (2) Design of the studies: method. Number of sample and technique of sampling collection, (3) result of the research.

2.4 Result and Explanation

The character of the systematic review showed that 14 studies have been chosen on table no 1, it uses retrospective cohort, cross sectional and case control as the design of the research. It's got from some relevant international and national journal. All of them should be relevant with the theme of this systematic review.

Research	Title	Countries	Study	The Result
er		of The	Design	
		Research		
Agrasada, 2011	Exclusive breastfeedin g of low birth weight infants for the first six months: infant morbidity and maternal and infant anthropome try	Philippines	Case Control	At six months, neither overall gain in infant weight, length and head circumferences nor mean maternal weight and body mass index differed significantly between the feeding groups. exclusive breastfeeding for 6 months can be recommended in term low birth weight infants, who were protected from diarrhea, had fewer respiratory infections, required no hospitalization and had catch up growth.
Rahayu, 2011	The impact of low weight on	Indonesia	Retrospective Cohort	The research shows stunting prevalence has improved from 15% at the age of 15% (6-12

 Table 1: Characteristics Used In Research

	delivering			month) becomes 34,6% at the
	and			age 3-4 years. There is a
	exclusive			difference stunting status test of
	breastfeedin			pairedsample t-test the value 1.
	g toward			Value $< 0,001$. On the research
	stunting			we also can found low weight on
	progress			delivery, premature, length of
	changing on			body with the stunting case at
	baby in the			the age of 6-12 month the score
	City and			of p value < 0,001, but it doesn't
	Kab.			show significant intimate with
	Tangerang.			the case of stunting at 3-4
	BantenProvi			month. Based on multivariate
	ence.			statistical test founded there is
				no impact to the breast milk with
				the stunting.
Anugraheni	Risk Factor	Indonesia	Case Control	Risk Factor of Stunting on
2012	of Stunting	maomesta	Cuse Connor	children at the age of 12-36
2012	on children			months in KecamatanPati.
	at the age of			
	12-36			
	months in			
	Kecamatan			
	Pati,			
	KabupatenP			
	ati			
	*** 11	D	~	
Marriot,	World	Developing	Cross-	These results identify FI
2012	Health	Countries	Sectional	associated with growth and
	Organizatio	Bangladesh,		reinforce maternal education as a
	n (WHO)			variable to reduce fisk of
	unant and	Cambodia,		underweight and stunting in
	fooding	Ethiopia		poor countries.
	indicators	Lunopia,		
	associations	Ghana,		
	with growth	Ledia		
	with growth	muia.	1	
	measures in			
	measures in 14 low-	Kenya,		
Marriot, 2012	at the age of 12-36 months in Kecamatan Pati, KabupatenP ati World Health Organizatio n (WHO) infant and young child feeding indicators: associations with growth	Developing Countries Bangladesh, Cambodia, Ethiopia, Ghana, India.	Cross- Sectional	These results identify FI associated with growth and reinforce maternal education as a variable to reduce risk of underweight and stunting in poor countries.

	countries	Malawi,		
		Nepal,		
		Nigeria,		
		Rwanda,		
		Tanzania,		
		Uganda,		
		Zambia,		
		Zimbabwe		
Al.Anshori, 2013	Risk Factor of Stunting on children at the age of 12-24 months (a study in Kecamatan Semarang Timur)	Indonesia	Case-Control	Risk factor of stunting on the age of 12–24 months is the status of economical status low (OR= 11.769; p= 0.006; CI 1.401 – 98.853), story of ISPA (OR= 4.043; p= 0.023; CI 1.154 – 14.164), little protein consumption (OR = 11.769; p = 0.006; CI 1.401 – 98.853). the history of Breast milk. The history of Breast milk. The history of breast feeding, parents education, history of diarrhea, energy consumption, fat, carbohydrate, zinc, energy consumption, calcium, are not the only one factor of stunting
Ana, 2015	Impact of breastfeedin g on the intelligence quotient of eight-year- old children		Prospective Cohort	Results At age 8 years, 560 children were assessed with Raven's Colored Progressive Matrices test. The average score was 22.56 points, with a standard deviation of 5.93. The difference in the averages found between the breastfed and non- breastfed groups at six months of age was 1.33 ($p = 0.008$). Mother's and child's skin color,

				social and economic class, maternal education and smoking, and breastfeeding at six months of age ($p = 0.007$) were still associated with the outcome.
Siqueira, 2013	Breastfeedi ng during the first hour of life and neonatal mortality	67 Country	Ecological Study	Results Breastfeeding within the first hour of life was negatively correlated with neonatal mortality (Spearman's Rho = -0.245 , p = 0.046), and this correlation was stronger among countries with more than 29 neonatal deaths per 1000 newborns (Spearman's Rho = -0.327 , p = 0.048). According to the statistical model, countries with the lowest breastfeeding rates had 24% higher neonatal mortality rates (Rate ratio = 1.24 , 95% CI = 1.07 - 1.44 , p & lt; 0.05), even when adjusted for potential confounders.
Lopes, 2014	Association between breastfeedin g and breathing pattern in children: a sectional study		Observational	Results of the total sample, 43.1% of the children were mouth breathers, 48.4% had been breastfed exclusively until six months of age or more, and 27.4% had non-nutritive sucking habits. Statistically significant associations were found for bottle-feeding (p < 0.001) and oral habits of non-nutritive sucking (p = 0.009), with an increased likelihood of children exhibiting a predominantly oral breathing pattern. A statistically significant association was also observed between a longer duration of exclusive

				breastfeeding and a nasal breathing pattern presented by children
Stadskleiv, 2014	Growth effects of exclusive breastfeedin g promotion by peer counsellors in sub- Saharan Africa: the cluster- randomised PROMISE EBF trial	AFRICA, Sub- Saharan BURKINA	Intervention Trial	The study included a total of 2,579 children. Adjusting for socio-economic status, the mean WLZ at 24 weeks were in Burkina Faso -0.20 (95%CI - 0.39 to -0.01) and in Uganda - 0.23 (95%CI -0.43 to -0.03) lower in the intervention than in the control arm. In South Africa the mean WLZ at 24 weeks was 0.23 (95%CI 0.03 to 0.43) greater in the intervention than in the control arm. Differences in LAZ between the study arms were small and not statistically significant. In Uganda, infants in the intervention arm were more likely to be wasted compared to those in the control arm at 24 weeks (PR 2.36; 95%CI 1.11 to 5.00). Differences in wasting in South Africa and Burkina Faso and stunting and underweight in all three countries were small and not significantly different.
Fonseca, 2015	Impact of breastfeedin g on the intelligence quotient of eight-year- old children1		Prospective Cohort	Results At age 8 years, 560 children were assessed with Raven's Colored Progressive Matrices test. The average score was 22.56 points, with a standard deviation of 5.93. The difference in the averages found between the breastfed and non- breastfed groups at six months of age was 1.33 ($p = 0.008$). Mother's and child's skin color,

				social and economic class, maternal education and smoking, and breastfeeding at six months of age ($p = 0.007$) were still associated with the outcome.
Ajetunmobi , 2015	Breastfeedi ng is Associated with Reduced Childhood Hospitalizat ion: Evidence from a Scottish Birth Cohort (1997-2009)	Scotland	<i>Retrospective</i> <i>Cohort</i>	Results Within the first 6 months of life, there was a greater hazard ratio (HR) of hospitalization for common childhood illnesses among formula-fed infants (HR 1.40; 95% CI 1.35-1.45) and mixed- fed infants (HR 1.18; 95% CI 1.11-1.25) compared with infants exclusively breastfed after adjustment for parental, maternal, and infant health characteristics. Within the first year of life and beyond, a greater relative risk of hospitalization was observed among formula- fed infants for a range of individual illnesses reported in childhood including gastrointestinal, respiratory, and urinary tract infections, otitis media, fever, asthma, diabetes, and dental caries.
Onubogu, 2015	Changes in breastfeedin g and nutritional status of Nigerian children between 1990 and 2008, and variations	Nigeria		In each study year, over 97% of the children were ever breastfed. The proportion of infants breastfed within 1 hour and 1 day of birth increased from 34% to 45.8%, and from 63.8% to 82.3%, respectively. Overall, breastfeeding for \geq 12 months changed from 88.9% to 95.2%, an increase of 7%; however, an increase of 14% was observed in

	by region,		the northern region (from 86.1%
	area of		to 97.8%) while a decline of 7%
	residence		was observed in the southern
	and		region (from 97.1% to 89.9%).
	maternal		Over the study period, the
	education		prevalence of all the assessed
	and		indicators of malnutrition
	occupation		(stunting, wasting and
			underweight) increased in the
			northern region while the
			southern region experienced a
			decline in all except severe
			wasting. In both urban and rural
			areas, stunting and wasting
			increased, while underweight
			declined. Children of non-
			formally educated and
			unemployed mothers were more
			malnourished in all the study
			years
Pudla, 2015	Effect of	Cross-	Prevalence of obesity was 8.6%
Pudla, 2015	Effect of breastfeedin	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7%
Pudla, 2015	Effect of breastfeedin g on obesity	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received
Pudla, 2015	Effect of breastfeedin g on obesity of	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for ≥ 6 months. BF
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for ≥ 6 months. BF was not associated with obesity,
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en:	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for ≥ 6 months. BF was not associated with obesity, even in the adjusted analysis.
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for ≥ 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that,
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month,
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who received breastmilk for 1–5 months (OP=0.22; 05% CI
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who received breastmilk for 1–5 months (OR=0.22; 95% CI 0.08–0.62). Among children of
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who received breastmilk for 1–5 months (OR=0.22; 95% CI 0.08–0.62). Among children of women with higher schooling
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who received breastmilk for 1–5 months (OR=0.22; 95% CI 0.08–0.62). Among children of women with higher schooling (>:8 years) the chance of
Pudla, 2015	Effect of breastfeedin g on obesity of schoolchildr en: influence of maternal education	Cross- Sectional	Prevalence of obesity was 8.6% (95% CI: 7.6–9.7%) and 55.7% (95% CI: 53.8–57.6%) received breastmilk for \geq 6 months. BF was not associated with obesity, even in the adjusted analysis. Stratified analysis according to maternal schooling showed that, in children aged 7–10 years and children whose mothers had 0–8 years of schooling, the chance of obesity was lower among those breastfeed for >1 month, especially among those who received breastmilk for 1–5 months (OR=0.22; 95% CI 0.08–0.62). Among children of women with higher schooling (>8 years), the chance of

Vieiro 2015	Trands in	Brazil	Cross	who were breastfed for >12 months (p-value for interaction <0.01). This interaction was not found in older children (11– 14 years).
	breastfeedin g indicators in a city of northeastern Brazil		Sectional	The annual growth of the breastfeeding indicators was 2.1% for breastfeeding in the first hour of life (from 52.2% to 68.9%); 1.1% for breastfeeding among children aged 9 to 12 months (from 45% to 59.6%); and 0.8% for exclusive breastfeeding among infants younger than 6 months (from 36.9% to 47.4%). The median duration of exclusive breastfeeding increased from 52.3 to 84.3 days, and overall breastfeeding from 278 to 376 days. Some changes in the characteristics of the population were observed, which may have positively influenced the evolution of the breastfeeding indicators (better schooling level among the mothers, less use of dummies/pacifiers, and lower proportions of adolescent mothers), or negatively (greater proportions of primiparous mothers and cesarean deliveries, and lower frequency of births in Baby-Friendly Hospitals).

3. Result

All the 14 studies are used to show that breastfeeding exclusively since 0 month till 6 months is very important to the growth and the development of the children. Many researcher has proved that the case of stunting is caused by the miss-procedure of breastfeeding The breastfeeding is not maximal for example. In the age of 6 month or before 6 month, the baby has got other food or formulation milk besides breast milk. The research also recommend us to do breastfeeding to premature baby, the researches state that breastfeeding will be able to gain the babies' weight.

4. Conclusion

From many characteristics above, we Found that breastfeeding exclusively in the age of 0 to 6 month has a significant impact to the growth of the children.

REFERENCES

A.L, F., et al., Abstract. Impact of breastfeeding on the intelligence quotient of eight-year-old children1.RevistaChilena de Pediatría, 2015. 86(2): p. 133.

https://doi.org/10.1016/j.rchipe.2015.05.003

- A.L, F., et al., Abstract. Impact of breastfeeding on the intelligence quotient of eight-year-old children1. Revista Chilena de Pediatría, 2015. 86(2): p. 133.
 https://doi.org/10.1016/j.rchipe.2015.05.003
- Agrasada, G.V.P., et al., Exclusive breastfeeding of low birth weight infants for the first six months: infant morbidity and maternal and infant anthropometry. Asia Pacific Journal of Clinical Nutrition, 2011. 20(1): p. 62-8.
- Ajetunmobi, O.M., et al., Breastfeeding is Associated with Reduced Childhood Hospitalization: Evidence from a Scottish Birth Cohort (1997-2009). The Journal of Pediatrics, 2015. 166(3): p. 620-625.e4. <u>https://doi.org/10.1016/j.jpeds.2014.11.013</u>

- Al-Anshori, H. and N. Nuryanto, FaktorRisikoKejadian Stunting PadaAnakUsia 12-24 Bulan (Studi Di Kecamatan Semarang Timur). 2013, Diponegoro University.
- Anugraheni, H.S. and M.I. Kartasurya, Faktorrisikokejadian stunting padaanakusia 12-36 bulan di KecamatanPati, KabupatenPati. 2012, Diponegoro University
- Bhandari, N., et al., Effect of community-based promotion of exclusive breastfeeding on diarrhoeal illness and growth: A cluster randomised controlled trial. The Lancet, 2003. 361(9367): p. 1418-23. <u>https://doi.org/10.1016/S0140-6736(03)13134-0</u>
- Dewey, K.G., et al., Effects of exclusive breastfeeding for four versus six months on maternal nutritional status and infant motor development: Results of two randomized trials in Honduras. The Journal of Nutrition, 2001. 131(2): p. 262-7.
- http://www.depkes.go.id/article/print/201404250001/dirjen-bina-gizi-kesehatan-ibu-dan-anakresmikan-rumah-menyusui.html

http://www.unicef.org/indonesia/id/media_21270.html. 19 APRIL 2016

- Kelly, Y.J. and R.G. Watt, Breast-feeding initiation and exclusive duration at 6 months by social class - results from the Millennium Cohort Study. Public Health Nutrition, 2005. 8(4): p. 417-21. https://doi.org/10.1079/PHN2004702
- Kelly, Y.J. and R.G. Watt, Breast-feeding initiation and exclusive duration at 6 months by social class - results from the Millennium Cohort Study. Public Health Nutrition, 2005. 8(4): p. 417-21. <u>https://doi.org/10.1079/PHN2004702</u>
- Lopes, T.S.P., L.F.A.D. Moura, and M.C.M.P. Lima, Association between breastfeeding and breathing pattern in children: a sectional study. Jornal de Pediatria, 2014. 90(4): p. 396-402. <u>https://doi.org/10.1016/j.jped.2013.12.011</u>

- Marriott, B.P., et al., World Health Organization (WHO) infant and young child feeding indicators: associations with growth measures in 14 low-income countries. Maternal & Child Nutrition, 2012. 8(3): p. 354-370. <u>https://doi.org/10.1111/j.1740-8709.2011.00380.x</u>
- Onubogu, C.U., et al., Changes in breastfeeding and nutritional status of Nigerian children between 1990 and 2008, and variations by region, area of residence and maternal education and occupation. Paediatrics And International Child Health, 2015: p. 2046905515Y0000000048-2046905515Y0000000048.
- Pudla, K.J., D.A. Gonzaléz-Chica, and F.d.A.G. de Vasconcelos, Effect of breastfeeding on obesity of schoolchildren: influence of maternal education. Revista Paulista de Pediatria (English Edition), 2015. 33(3): p. 294-301.

https://doi.org/10.1016/j.rppede.2015.06.006 https://doi.org/10.1016/j.rpped.2015.01.004

- Rahayu, L.S., M. Sofyaningsih, and M.P.D. HAMKA. Pengaruh BBLR (Berat Badan Lahir Rendah) dan pemberian ASI eksklusif terhadap perubahan status stunting pada balita di Kota dan Kabupaten Tangerang Provinsi Banten. in Prosiding Seminar Nasional Peran Masyarakat dalam Pencapaian MDG's di Indonesia. 2011.
- Shirima, R., et al., Exclusive breast-feeding is rarely practised in rural and urban Morogoro, Tanzania. Public Health Nutrition, 2001. 4(2): p. 147-54. https://doi.org/10.1079/PHN200057
- Shirima, R., et al., Exclusive breast-feeding is rarely practised in rural and urban Morogoro, Tanzania. Public Health Nutrition, 2001. 4(2): p. 147-54https://doi.org/10.1079/PHN200057

- SiqueiraBoccolini, C., et al., Breastfeeding during the first hour of life and neonatal mortality.Jornal de Pediatria (VersãoemPortuguês), 2013. 89(2): p. 131-136. https://doi.org/10.1016/j.jpedp.2012.09.002 https://doi.org/10.1016/j.jped.2013.03.005
- Stadskleiv Engebretsen, I.M., et al., Growth effects of exclusive breastfeeding promotion by peer counsellors in sub-Saharan Africa: the cluster-randomised PROMISE EBF trial. BMC
 Public Health, 2014. 14(1): p. 1361-1386. Engebretsen, I.M., et al., Growth effects of exclusive breastfeeding promotion by peer counsellors in sub-Saharan Africa: the cluster-randomised PROMISE EBF trial. BMC Public Health, 2014. 14(1): p. 1361-1386.
- Vieira, G.O., et al., Trends in breastfeeding indicators in a city of northeastern Brazil. Jornal de Pediatria, 2015. 91(3): p. 270-277. <u>https://doi.org/10.1016/j.jped.2014.08.012</u>