

SUBMITTED

POLICY STUDY AND STUNTING PREVENTION IN SURABAYA

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ABSTRACT

Background: Nutritional Status Survey (*Pemantauan Status Gizi (PSG)*) in 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%). Conducted study by Ricardo in Bhutta in 2013 stated that stunting toddler contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year. Result of Basic health research (*Riskesdas*) in 2013 stated that condition of consuming food for pregnant woman and toddlers in 2016-2017 showed in Indonesia, 1 from 5 pregnant women was malnutrition. Decrease of stunting rate only reached 4% in 1992 until 2013. Presidential Regulation (*Perpres*) number 42/2013 had determined National Movement of First Thousand Days of Life for increasing toddler's nutritional status that was followed by development program, including its budget.

Method: This research was mix method research, which was a step in the research by combining two kinds of approaches, qualitative and quantitative. Besides, this research utilized gradual mix technique. Population in this research was Public Health Centers in Surabaya area. Meanwhile, the sample was all of policyholders in Surabaya, who were Head of Public Health Centers and midwives. This research utilized data analysis in gradual qualitative-quantitative. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

Result: Public Health Center of Pucang Surabaya still had the highest stunting rate among 10 Public Health Centers. Public Health Center of Tanah Kali Kedinding Surabaya had quite high increasing rate against stunting from 2017 until 2018. Almost all programs were appropriate with 1000 HPK guidelines in area of Public Health Centers Surabaya that had been done by the midwives. According to FGD result, regulation and policies which were related to 1000 HPK, particularly for regulation of exclusive breast milk and PMBA which had been quite many either in was statute law (*Undang-Undang (UU)*), Government Regulation (*Peraturan Pemerintah (PP)*), Minister of Health Regulation (*Peraturan Menteri Kesehatan (Permenkes)*), Decree of Minister of Health (*Surat Keputusan Menteri Kesehatan (Kep menkes)*), or Regional Regulation (*Peraturan Daerah (Perda)*). Handling stunting was done by synergy among central government, regional government, entrepreneur, and community organization. High commitment from all health professions was much needed so that it could be able to hasten the decrease of stunting.

Conclusion and Suggestion: the implementation of 1000 HPK program had been conducted as an effort in reducing stunting rate. However, stunting problem still had not been solved. Therefore, it was needed cooperation mutually in cross sector for handling stunting problem, particularly in Surabaya City, East Java Province, Indonesia.

Keywords: *Stunting, Policy Study, Surabaya*

INTRODUCTION

Background

Nutritional Status Survey (*Pemantauan Status Gizi (PSG)*) 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%). Conducted research by Ricardo in Bhutta in 2013 stated that stunting toddlers contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year.

In order to reduce the rate, the society needs to understand what factors which cause stunting. Stunting is a condition of failed growth on toddlers (body and brain growth) as an impact of malnutrition for long time. Hence, the child is shorter from normal child who is same age as him/her and has lateness in thinking.

Prevalence of stunting in Indonesia has quite stagnant rate from 2007 until 2013. WHO determined that limitation of nutrition problem was not more than 20%, thus, Indonesia was a country that had health problem for society. Moreover, this research aimed at studying the policy and gaps that could be solved through policy option which was through analyzing legal document and other literature and programs that had been developed. Then, it was conducted discussion form by involving experts in composing result as the policy option.

RESEARCH METHOD

This research was mix method research, which was a step of research by combining two kinds of approaches, qualitative and quantitative. Population in this research was Public Health Centers in Surabaya. Meanwhile, the sample was all of policyholders in Surabaya area, who were Head of Public Health Center and midwives. This research utilized data analysis in gradual qualitative-quantitative. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

RESEARCH RESULT AND DISCUSSION

Respondents in this research were midwives which the result of basic health research (*Riset Kesehatan Dasar (Riskesdas)*) in 2018 showed that the decrease of stunting prevalence in National level was in 6,4% for 5 years period, from 37,2% (2013) to be 30,8% (2018). Meanwhile, for toddlers who had normal status increased from 48,6% (2013) to be 57,8% (2018). Meanwhile, the other toddlers suffered other nutrition problems.

4.5.1 Description of Stunting in Surabaya

Result of Nutritional Status Survey (*Pemantauan Status Gizi (PSG)*) in 2017, stunting in Surabaya was 10,78 %, meanwhile, in 2018, it decreased to be 8,92 %. Research result for stunting data in 10 Public Health Centers in Surabaya in 2017 and 2018 as followed:

Table 4.1 Data of Stunting in 2017 - 2018

NUMBER	AREA OF PUBLIC HEALTH CENTER	2017 (N/%)	2018 (N/%)
1	JAGIR	153/ 4,59 %	359/ 9,89 %
2	TANAH KALI KEDINDING	71/ 1,89 %	505/ 8,93%
3	MULYOREJO	507/ 19,37%	252/ 9,57%
4	SIWALAN	164/ 14,86%	175/ 16,28%
5	DUPAK	206/ 11,87%	149/ 8,58%
6	MOJO	479/ 9,81%	113/ 2,37%
7	PUCANG	356/ 15,79%	505/ 20,27%
8	TENGGILIS	483/ 16,01%	128/ 4,24%
9	KREMBANGAN SELATAN	4/ 0,15%	17/ 0,58%
10	GUNUNG ANYAR	188/ 5,56%	9/ 0,26%

According to data above, Public Health Center of Pucang still had the highest stunting rate among other Public Health Centers. Meanwhile, Public Health Center of Tanah Kali Kedinding had quite high increase rate against stunting problem from 2017 until 2018.

2.5.2 Description of Stunting Survey based on 1000 HPK program in Public Health Center

Surabaya is a city that implements 1000 HPK program with good survey. In 10 Public Health Centers through midwives who had responsibility either in the inside or outside of the Public Health Center, it was obtained the result below:

Table 4.2 Description of Stunting Survey based on 1000 HPK program in Public Health Center

	Done		Undone	
	Σ	%	Σ	%
Intervention of Specific Nutrition on Pregnant Woman Group				
- Supplementation of iron folate	78	86,67	12	13,33
- Reducing cigarette consumption and air pollution in house	56	62,22	34	37,78
- Giving additional food for pregnant woman who was chronic less energy (<i>Kurang Energi Kronis (KEK)</i>)	74	82,22	16	17,78
- Overcoming pregnant woman who suffered from intestinal worm	68	75,55	22	24,44
- Calcium supplementation for pregnant woman	78	86,67	12	13,33
Intervention of specific nutrition on group of 0-6 months old Baby				
- Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
Intervention of specific nutrition on group of 7 – 23 months old Toddler				
- Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
- Communication of behavior changes for improving in giving complementary feeding	70	77,78	20	22,22
- Zinc supplementation	72	80,00	18	20,00
- Zinc for diarrhea management	69	76,67	21	23,33
- Vitamin A supplementation	86	95,55	4	4,44
- Giving iodine salt	75	83,33	15	16,67
- Preventing acute malnutrition	68	75,55	22	24,44

- Giving anthelmintic drug	86	95,55	4	4,44
- Iron fortification and supplementation activity	80	88,89	10	11,11
Intervention of sensitive nutrition				
- Providing clean water	66	73,33	24	26,67
- Food security and nutrition (giving additional food for pregnant woman who was chronic less energy (<i>Kurang Energi Kronis (KEK)</i>)	71	78,89	19	21,11
- Birth limitation	63	70,00	27	30,00
- Health insurance	60	66,67	30	33,33
- Basic childbirth insurance	60	66,67	30	33,33
- Food fortification (vitamin A supplement)	71	78,89	19	21,11
- Nutrition education for society (breast feeding promotion through individual and group counseling)	72	80,00	18	20,00
- Intervention for female teenagers	63	70,00	27	30,00

Almost all programs which were appropriate with 1000 HPK guideline in Public Health Centers in Surabaya had been conducted by the midwives.

2.5.3 Description of Informant's Characteristic

Informant who participated in this research were 10 informants with varied characteristic. This research was conducted in Public Health Centers in Surabaya area and Public Health Office of Surabaya. This research was conducted in Public Health Center of Dupak, Public Health Center of Jagir, Public Health Center of Krembangan Selatan, Public Health Center of Tanah Kali Kedingding, Public Health Center of Mulyorejo, Public Health Center of Siwalan Kerto, Public Health Center of Gunung Anyar, Public Health Center of Sidotopo, and Public Health Center of Sidotopo Wetan. Meanwhile, the informant was the policy maker and stunting program implementer in each agency.

2.6 Result of Structured Interview Analysis

2.6.1 Analysis of regional regulation system in Surabaya

Every regulation that was conducted based on the policy, the regulation that was related to stunting was Government Regulation (PP) number 33/2012 about exclusive breast milk, Presidential Regulation (*Perpres*) number 42/2013 about national movement to accelerate nutrition improvement, planning guideline of national movement to accelerate nutrition for first thousand days of life or 1000

HPK movement had begun since 2013. Besides, it was also appropriate with planning of regional construction in chapter 260, chapter 261, and chapter 262 regarding stunting that was appropriate with planning of national construction, it was coordinated, synergized, and harmonized by Regional Development Planning Agency (BAPPEDA) in Province level. It was also appropriate with 5 pillars of handling stunting, particularly in pillar 2 about national campaign and communication of behavior changes of communication strategy for behavior of stunting prevention, and also there was a facility of stunting policy in regulation of minister of home affairs (*permendagri*) number 22/2018 about Regional Development Work Plan (*Rencana Kerja Pembangunan Daerah (RKPD)*) in 2019.

2.6.2 Analysis of Fund Source in Stunting Prevention Program in Surabaya

Analysis of fund source from central DIPA about technical orientation of neonatal maternal health, antenatal based on standards, SDIDTK, MTBS, SN-PKPR and Kespro catin etc., fund source from central DIPA about implementation of government matters that became regional authority which was funded by and at the expense of Regional development budget (*Anggaran Pendapatan Belanja Daerah (APBD)*).

Government managed intervention program of integrated stunting prevention which involved ministries and institutions. In 2018, it was determined 100 regencies in 34 provinces in Indonesia as the priority location in reducing stunting. This total would increase more to be 60 regencies for next year. Therefore, through the cooperation of this cross sector, it was expected that it could reduce stunting rate in Indonesia. Thus, it could be reached the Sustainable Development Goals (SDGs) target in 2025, which was the decrease of stunting rate until 40%.

2.6.3 Stunting Fund Allocation Policy

Fund allocations of stunting prevention program were nutrition intervention, maternal and child health service, environment health, pregnant mother and 0-2 years old child, or household of 1.000 HPK. Effort in increasing the effectiveness

from several initiative and program/ activity through support from national leadership, priority decision, and harmonization of this program needed coordination and technical support, high-level advocacy, and cross-sectoral partnerships to accelerate target of nutrition improvement for society which was expected by focusing on nutrition improvement on first 1000 days of life (*1000 Hari Pertama Kehidupan (HPK)*). The policy maker and program implementer of cross sector had a power to improve the future through developing the intervention of sensitive nutrition that impacted on optimization of either individual nutrition or country. Furthermore, beginning to invest as soon as possible could result better human resource, break the poverty circle, and increase economic development. However, the main goal was synergizing to break the cycle of nutrition problem for the improvement of future generation. Concerning with quite wide opportunity for effort in improving human resource against the impact of trans-generation, recently, Indonesia strengthened more the coordination from several sides.

2.6.4 Support for Allocation of Stunting Funds

Support for allocation of stunting funds facilitated regional government in internalizing SPM in regional development planning documents (RPJMD/RKPD), facilitated regional government in prioritizing SPM in budgeting documents (APBD), conducted a training and monitoring for implementation of government matters, facilitated the publication of Citizenship Registration Number (NIK) and newborn baby certificates.

Purpose of policy for special allocation funds (*Dana Alokasi Khusus (DAK)*) was in physique TA 2019 and as we knew that, DAK in physique was fund that was allocated in regional development budget (APBN) to certain region for donating physical certain activity which was regional matters and it was appropriate with national priority, such as providing basic public service infrastructure and facilities, both for fulfilling minimum service standard (*Standar Pelayanan Minimal (SPM)*) and reaching either national priority or accelerating regional construction and region with certain characteristic for overcoming the differences in public services among regions.

Support for stunting fund allocation was such as Health Operational Assistance (*Bantuan Operasional Kesehatan (BOK)*) which aimed at increasing the role of multi sector in accelerating the decrease of stunting prevalence. Meanwhile, the particular goal was implementing convergence, coordination and planning consolidation, the movement of implementation for acceleration in reducing stunting prevalence, implementing the intervention of handling stunting and implementing monitoring and evaluation. Moreover, the fund allocation for a regency/ a city was Rp 750.000.000,-

2.6.5 Obstruction in Stunting Fund Allocation

Obstruction in stunting fund allocation was such as coordination in implementing intervention of either specific or sensitive nutrition, regulation that was related to handling stunting which had not been become as a general base for handling stunting, the access in implementing intervention of specific and sensitive nutrition still had not been integrated, it had not been optimal campaign of dissemination that was related to stunting. Besides, another obstruction was the regency/ city was still late in fulfilling requirements for disbursement of funds. In addition, the requirements were making report of convergence of stunting prevention in regency level in previous fiscal year.

2.6.6 Regulation of Stunting Prevention Program against SPM

Regulation of stunting prevention program against SPM was managed by central policy of SPM PP number 2 in 2018 SPM, policy and regulation which were related to stunting was statute law (UU) number 36 /2009 about health, UU number 18 /2012 about food, RPJMN 2015-201. Moreover, it was needed synchronization of central and regional activities for regulation.

2.6.7 Budget for SPM Stunting

Budget for SPM stunting was managed by regional development budget (APBD) and central DIPA. Budget in every region was about Rp.750.000.000,00 for every regency/city.

2.6.8 Related Policy with 1000 HPK

Related policy with 1000 HPK in Surabaya was conducted breast milk village program, companion donor “*Menuju Generasi Platinum kota Surabaya*”, in English was “going toward the platinum generation of Surabaya“ for prospective bride and groom class.

2.6.9 Legality Component Program

Legality componen program, such as decree of work for Head of service, for Public Health Center had not been from the regency/ city or from the Public Health Center itself, but there were the instruments in implementing program, such as SPM, regulation of minister of health (*Permenkes*) and Standard Operating Procedure (SOP) of Public Health Center, using *Permenkes* of 21 years in 2016 about the use of JKN Capitation Fund.

2.7 FGD Analysis

The implementation of Focus Group Discussion was conducted on Saturday, 7th September 2019 about policy study and stunting prevention in Surabaya, and the respondents were 10 respondents. From the FGD analysis above, it was obtained policy study about policy of 1000 HPK which was there and it had been conducted, but the cooperation in cross society had not been occurred, synergy was between institute of central government and regional government, and education institute. All of activities in society inserted with campaign for reducing stunting. After being conducted Focus Group Discussion (FGD) analysis, it was obtained policy recommendations:

1. Synergy of program between Central Government and Regional Government in overcoming stunting.
2. Monitoring about the implementation of 1000 HPK by society.
3. Commitment of human resources for implementation in overcoming stunting in all sectors.

Discussion

Stunting was related to poverty. Concerning with stunting toddlers was not only occurred on low/ poor family, but also on middle/high family. Between

poverty and stunting was like a vicious circle. The poverty made nutritional adequacy in underprivileged families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.

Result of Nutritional Status Survey (*Pemantauan Status Gizi (PSG)*) in 2017, stunting in Surabaya was 10,78 %, meanwhile in 2018, it was 8,92 %. Policy of Presidential Regulation in 42/2013 about national movement to accelerate the nutritional improvement focused on rescuing first thousand days of life (1000 HPK) for stunting. In 2015, Surabaya selected to publish the policy of maternal and children safety (*Keselamatan Ibu dan Anak (KIA)*). This research aimed at analyzing the rescue policy of 1000 HPK and decrease of stunting in Surabaya. Content in regional regulation of maternal and children safety (*Keselamatan Ibu dan Anak (KIA)*) had not focused on the effort of 1000 HPK and stunting, but it focused more on managing the effort of specific intervention that was related to health service. Meanwhile, in non-health sector for sensitive intervention, it had not been into regional regulation and had not been managed more. However, the rescue effort of 1000 HPK and stunting were found that those things were ever discussed in Regional Action Plan study (*Rencana Aksi Daerah (RAD)*), but it was incomplete. In political, economic, and socio cultural context, regional regulation of KIA had not focused, had not correlated directly, and had not involved all interventions for the rescue goal of 1000 HPK and stunting. In process, either formulation or evaluation, the regional regulation of KIA had not involved all cross sectors, entered and evaluated either sensitive or specific intervention of non-health sector that had purpose to 1000 HPK and stunting. Policy of 1000 HPK and the decrease of stunting had been purposed to Regional Action Plan study (*Rencana Aksi Daerah (RAD)*), but it had not been coordinated in cross sector and it stopped in economic side of Regional Development Planning Agency (*Badan Perencanaan Pembangunan Daerah*) in Surabaya.

Furthermore, formulation of nutritional improvement in 1000 HPK policy had made change of significant perspective. Nutrition problem was not only viewed as health problem, but it had become a general responsibility. The success

of nutrition improvement was a sequel from the success in food supply sector, behavior changes and the increase of knowledge, environment improvement and clean water facility supply, providing employment and the increase of income, and also other various determinant factors. In line with it, handling nutrition problem could not only been conducted by government, but it also needed involvement and support from others, such as development partners, non-governmental organization (*Lembaga Swadaya Pemerintah (LSM)*), universities, professional organization, and community organization. Hence, let's cooperate to improve nutrition condition for Indonesian toddlers. We are in Ministry of People's Welfare will do coordination to all activities which are done either by government or non-government in improving nutrition for society.

From quantitative data, it was seen that first sequence for stunting problem was seen in Public Health Center of Pucang (20,27 %) and this rate had been below national target, that was 28 %., which meant that it had been success to reduce stunting rate from cumulative percentage. However, if it was seen from the increase in previous year, it was known that in the average, it did not increase significantly. This was because most of Public Health Centers here had conducted the activity of 1000 HPK program.

Moreover, stunting was correlated with poverty. Nevertheless, case of stunting toddlers was not only occurred on low/ poor family but also on middle/ high family. In other word, it was like a vicious circle between poverty and stunting. The poverty made nutritional adequacy in underprivileged families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.

Such as in other countries, stunting problem in Indonesia could not only been completed by health sector. There must be an intervention holistically and integrated. One of them was by optimizing village funds to reduce poverty in the village. Minister of Villages, Development of Disadvantaged Regions and Transmigration, Eko Putro Sandjojo stated that after 72 years of independent day, Indonesia was included in 17 countries in the world with PDB US\$ 1 trillion.

Furthermore, it was estimated the Indonesian PDB in 2030 reached US\$ 2,5 trillion, which would place Indonesia as a country with economic power in 9th in the world. By PDB US\$ 7,2 trillion in 2050, Indonesia would become a country with economic power in 4th in the world after Tiongkok and America. However, all the things would not be reached if total of low/ poor people and stunting were still high. According to Eko, there were three main factors that caused stunting, which were lack of knowledge, basic infrastructure problems, and poverty.

All in all, regional government (*Pemerintah daerah (pemda)*) was encouraged to be more active to overcome stunting in Indonesia because the regional government was the government organ that knew most the economic, social, and public health condition until to the smallest scope. Therefore, the initiative of intervention was expected from the regional government.

2.8 References

- ACC/SCN & International Food Policy Research Institute (IFPRI). 4th Report on The World Nutrition Situation, Nutrition Throughout The Life Cycle, 2000.
- Amigo H, Bustos P, Radrigán ME. (1997). Is there a relationship between parent's short height and their children's Social interclass epidemiologic study. Available from: <http://europepmc.org/abstract/MED/9567389>.
- Black et al. Maternal And Child Undernutrition: Global And Regional Exposures And Health Consequences. The Lancet Series. 2008. Available from : www.thelancet.com
- Barker, David. Nutrition in The Womb : How Better Nutrition During Development Will Prevent Heart Disease, Diabetes and Stroke. The Development Origin of Health and Disease (DOHAD) : a call for action. USA:The Barker Fondation, 2008.
- Bloss, Emily, Fidelis Wainaina, danRobert C. Bailey. Prevalence and Predictors of Underweight, Stunting, and Wasting among Children Aged 5 and Under in Western Kenya. Journal of Tropical Pediatrics 2004, Vol. 50, No. 5, 260-270.
- Branca F, Ferrari M. Impact of micronutrient deficiencies on growth: The stunting syndrome. Ann Nutr Metab 2002; 46 (suppl 1): 8-17.

- Caufield, et al. *Disease Control Priorities in Developing Countries* 2nd edition (Stunting, Wasting and Micronutrient Deficiency Disorder chapter 28). Jamison et al (Ed). World Bank, Washington D.C, 2006.
- Darity, W. A. Stunted Growth. *International Encyclopedia of The Social Sciences*, 2nd Edition. 8 : 187- 89. Detroit Macmillan References USA. 2008.
- Depkes RI. *Pencegahan dan Penanggulangan Gizi Buruk*. Depkes RI; Jakarta, 2005. Fitri. *Berat Lahir sebagai Faktor Dominan Terjadinya Stunting pada Balita (12–59 Bulan) di Sumatera (Analisis Data Riskesdas 2010)*. Tesis Pascasarjana Universitas Indonesia; UI Depok, 2010.
- Gigante et al. *Epidemiology Of Early And Late Growth In Height, Leg And Trunk Length: Findings From A Birth Cohort Of Brazilian Males*. *European Journal of Clinical Nutrition* 2009 : 375-381.
- Hastono, Susanto. *Analisis Data Deskriptif*. Universitas Indonesia; Depok, 2007. Kamal, Mostafa. *Socio-economic Determinants of Severe and Moderate Stunting among Under-Five Children of Rural Bangladesh*. *Mal J Nutr* 2011, 17(1), 105-118.
- Kemenkes, RI. *Riset Kesehatan Dasar 2010*. Badan Penelitian dan Pengembangan Kesehatan, Kementerian Kesehatan RI, 2010.
- Kemenkes, RI. *Riset Kesehatan Dasar 2013*. Badan Penelitian dan Pengembangan Kesehatan, Kementerian Kesehatan RI, 2013.
- Manary, M. J. & Solomons, N. W. *Gizi Kesehatan Masyarakat, Gizi dan Perkembangan Anak*. Penerbit Buku Kedokteran EGC. Terjemahan Public, 2009.
- Marquist, Grace S., Jean-Pierre Habicht, Claudio F Lanata, Robert E Black, dan Kathleen M. Rasmussen. *Association of Breastfeeding and Stunting in Peruvian Toddlers: An Example of Reverse Causality*. *International Journal of Epidemiology*, Vol. 26, No. 2, 349-356.
- Monteiro CA, Benicio MHDA, Conde WL, Konno S, Lovadino AL, Barros AJD et al. *Narrowing socioeconomic inequality in child stunting: the Brazilian experience, 1974-2007*. *Bull World Health Organ*. 2010; 88(4): 305-311.
- Muljati, Sri, dkk. *Determinan Stunting Pada Anak Usia 2-3 Tahun Di Tingkat Provinsi*. *PGM* 2011, 34(1):50-62.

- Nasikhah, Roudhotun dan Margawati, Ani . Faktor Risiko Kejadian Stunting Pada Balita Usia 24 – 36 Bulan Di Kecamatan Semarang Timur. Undergraduate thesis, Diponegoro University, 2012.
- Rahayu, Leni Sri dan Sofyaningsih, Mira. Pengaruh BBLR (Berat Badan Lahir Rendah) Dan Pemberian ASI Eksklusif Terhadap Perubahan Status Stunting Pada Balita Di Kota Dan Kabupaten Tangerang Provinsi Banten. Prosiding Seminar Nasional “Peran Kesehatan Masyarakat dalam Pencapaian MDG’s di Indonesia” 12 April 2011. Available from: http://journal.unsil.ac.id/jurnal/prosiding/9/9leni_19.pdf.pdf.
- Ramakrishnan, U. et al. Role of intergenerational effects on linear growth. Symposium : Causes and etiology of stunting. 1999 (cited 25 December 2014). Available from: <http://jn.nutrition.org/content/129/2/544S.full.pdf+html>
- R., Paudel, Pradhan B., Wagle RR, Pahari DP, dan Onta SR. (2012). Risk factors for stunting among children: a community based case control study in Nepal. Kathmandu Univ Med J (KUMJ). 2012 Jul-Sep;10(39):18-24.
- Semba, R. D. & Bloem, M. W. Nutrition And Health In Developing Countries. Humana Press. Totowa; New Jersey, 2001.
- Semba, Richard D., Saskia de Pee, Kai Sun, Mayang Sari, Nasima Akhter, Martin W Bloem. Effect of Parental Formal Education on Risk of Child Stunting in Indonesia and Bangladesh: A Cross-sectional Study. Lancet 2008; 371: 322–328.
- Sharlin, J & Edelstein, S. Essentials of Life Cycle Nutrition. Jones and Bartlett Publisher; LLC, 2011. Stunting In Indonesia And Bangladesh : A Cross Sectional Study. 371 : 322 - 328. Available from : www.thelancet.com.
- S., Adair L, Guilkey DK.,. Age-specific determinants of stunting in Filipino children. J Nutr. 1997 Feb;127(2):314-20.
- Stein, Aryeh D. et al. Growth patterns in early childhood and final attained stature: data from five birth cohorts from low- and middle-income countries. Am. J. Hum. Biol. 2010. © 2009 Wiley-Liss, Inc. Wiley_Blackwell Online Open Available from: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3494846/>
- Suhardjo. Perencanaan Pangan dan Gizi. Jakarta: Bumi Aksara, 2003.
- Tarigan, Ingan Ukur. Faktor-Faktor yang Berhubungan dengan Status Gizi Anak Umur 6-36 Bulan Sebelum Dan Saat Krisis Ekonomi Di Jawa Tengah. Buletin Penelitian Kesehatan Vol. 31, No.1, 2003: 1-12

Trihono, Gitawati R. Hubungan antara penyakit menular dengan kemiskinan di Indonesia. Badan Pusat Statistik. Tingkat Kemiskinan di Indonesia Tahun 2007. Berita Resmi Statistik, No.38/07/Th.X, 2 Juli 2007.

Utomo, B. Dampak Krisis Moneter dan kekeringan Terhadap Status Kesehatan dan Gizi Anak, dalam: Seminar Dampak Krisis Moneter dan Bencana Terhadap Masyarakat, Keluarga, Ibu dan Anak di Indonesia. Kerjasama LIP1 & UNICEF, 21 Februari 1998: 47-62.

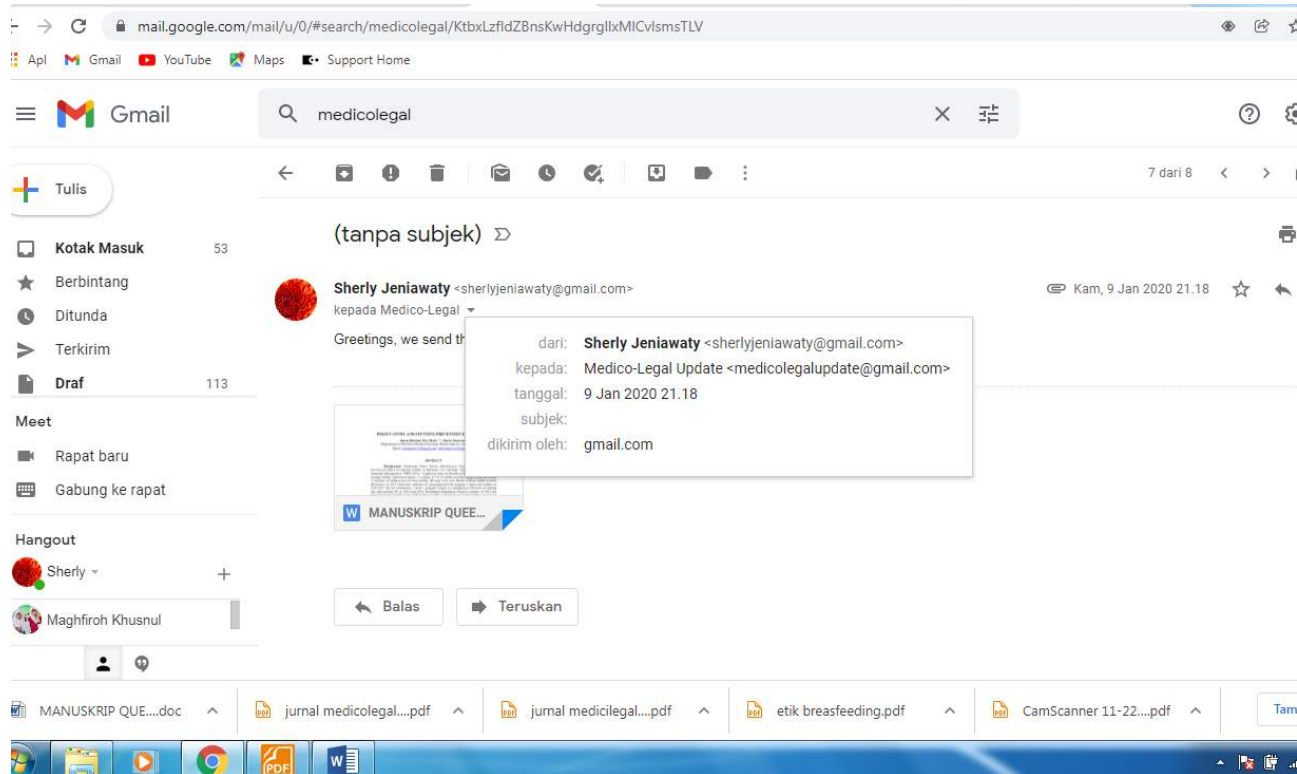
Unicef. The Community Infant and Young Child Feeding Counselling Package : Key Messages Booklet. 2012 (cited 25 Desember 2014). Available from: http://www.unicef.org/nutrition/files/counseling_cards_Oct._2012small.pdf

UNICEF. Ringkasan Kajian Gizi; Ibu dan Anak. UNICEF Indonesia, 2012.
UNICEF. Improving Child Nutrition; The Achievable Imperative for Global Progress. Division of Communication; UNICEF, 2013.

WHO. Complementary feeding family foods for breastfed children. 2000 (cited 25 Desember 2014). Available from: whqlibdoc.who.int/hq/2000/who_nhd_00.1.pdf.

World Health Organization. WHO Child Growth Standards. Geneva, (2006a).

ACCEPTED



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Abstract

Background: Nutritional Status Survey in 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%).⁸ Conducted study by Ricardo in Bhutta in 2013 stated that stunting toddler contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year.² Result of Basic health research (*Riskesdas*) in 2013 stated that condition of consuming food for pregnant woman and toddlers in 2016-2017 showed in Indonesia, 1 from 5 pregnant women was malnutrition. Decrease of stunting rate only reached 4% in 1992 until 2013. Presidential Regulation number 42/2013 had determined National Movement of First Thousand Days of Life for increasing toddler's nutritional status that was followed by development program, including its budget.⁷

Method: This research was mix method research, which was a step in the research by combining two kinds of approaches, qualitative and quantitative. Besides, this research utilized gradual mix technique. Population in this research was Public Health Centers in Surabaya area. Meanwhile, the sample was all of policyholders in Surabaya, who were Head of Public Health Centers and midwives. This research utilized data analysis in gradual qualitative-quantitative. Not conflict of interest, source of funding self and ethical clearance taken from committee ethic. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

Result and Analysis: Public Health Center of Pucang Surabaya still had the highest stunting rate among 10 Public Health Centers. Public Health Center of Tanah Kali Keding Surabaya had

quite high increasing rate against stunting from 2017 until 2018. Almost all programs were appropriate with 1000 HPK (1000 first day of life) guidelines in area of Public Health Centers Surabaya that had been done by the midwives. According to FGD result, regulation and policies which were related to 1000 HPK, particularly for regulation of exclusive breast milk and PMBA which had been quite many either in was statute law, Government Regulation, Minister of Health Regulation, Decree of Minister of Health, or Regional Regulation. Handling stunting was done by synergy among central government, regional government, entrepreneur, and community organization. High commitment from all health professions was much needed so that it could be able to hasten the decrease of stunting.

Conclusion and Suggestion: the implementation of 1000 HPK program had been conducted as an effort in reducing stunting rate. However, stunting problem still had not been solved. Therefore, it was needed cooperation mutually in cross sector for handling stunting problem, particularly in Surabaya City, East Java Province, Indonesia.

Keywords: Prevention Stunting, Policy Study, Surabaya

Introduction

Nutritional Status Survey (PSG) 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%). Conducted research by Ricardo in Bhutta in 2013 stated that stunting toddlers contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year. ² Prevalence of stunting in Indonesia has quite stagnant rate from 2007 until 2013.⁶ WHO determined that limitation of nutrition problem was not more than 20%, thus, Indonesia was a country that had health problem for society.⁵ Moreover, this research aimed at studying the policy and gaps that could be solved through policy option which was through analyzing legal document and other literature and programs that had been developed. Then, it was conducted discussion form by involving experts in composing result as the policy option. ¹

Material And Methods

This research was mix method research, which was a step of research by combining two kinds of approaches, qualitative and quantitative. Population in this research was Public Health Centers in Surabaya. Meanwhile, the sample was all of policyholders in Surabaya area, who were Head of Public Health Center and midwives.

This research utilized data analysis in gradual qualitative-quantitative. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

Findings: Respondents in this research were midwives which the result of basic health research (*Riskesdas*) in 2018 showed that the decrease of stunting prevalence in National level was in 6,4% for 5 years period, from 37,2% (2013) to be 30,8% (2018). Meanwhile, for toddlers who had normal status increased from 48,6% (2013) to be 57,8% (2018). Meanwhile, the other toddlers suffered other nutrition problems.⁵

Description of Stunting in Surabaya

Result of Nutritional Status Survey in 2017, stunting in Surabaya was 10,78 %, meanwhile, in 2018, it decreased to be 8,92 %. Research result for stunting data in 10 Public Health Centers in Surabaya in 2017 and 2018 as followed:

Description of Stunting Survey based on 1000 HPK program in Public Health Center

Surabaya is a city that implements 1000 HPK (1000 first day of life) program with good survey. In 10 Public Health Centers through midwives who had responsibility either in the inside or outside of the Public Health Center, it was obtained the result below:

Table 1. Description of Stunting Survey based on 1000 HPK program in Public Health Center

	Done		Undone	
	Σ	%	Σ	%

Intervention of Specific Nutrition on Pregnant Woman Group				
- Supplementation of iron folate	78	86,67	12	13,33
- Reducing cigarette consumption and air pollution in house	56	62,22	34	37,78
- Giving additional food for pregnant woman who was chronic less energy	74	82,22	16	17,78
- Overcoming pregnant woman who suffered from intestinal worm	68	75,55	22	24,44
- Calcium supplementation for pregnant woman	78	86,67	12	13,33
Intervention of specific nutrition on group of 0-6 months old Baby				
- Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
Intervention of specific nutrition on group of 7 – 23 months old Toddler				
- Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
- Communication of behavior changes for improving in giving complementary feeding	70	77,78	20	22,22
- Zinc supplementation	72	80,00	18	20,00
- Zinc for diarrhea management	69	76,67	21	23,33
- Vitamin A supplementation	86	95,55	4	4,44
- Giving iodine salt	75	83,33	15	16,67
- Preventing acute malnutrition	68	75,55	22	24,44
- Giving anthelmintic drug	86	95,55	4	4,44
- Iron fortification and supplementation activity	80	88,89	10	11,11
Intervention of sensitive nutrition				
- Providing clean water	66	73,33	24	26,67
- Food security and nutrition (giving additional food for pregnant woman who was chronic less energy	71	78,89	19	21,11
- Birth limitation	63	70,00	27	30,00
- Health insurance	60	66,67	30	33,33
- Basic childbirth insurance	60	66,67	30	33,33
- Food fortification (vitamin A supplement)	71	78,89	19	21,11
- Nutrition education for society (breast feeding promotion through individual and group counseling)	72	80,00	18	20,00
- Intervention for female teenagers	63	70,00	27	30,00

Almost all programs which were appropriate with 1000 HPK guideline in Public Health Centers in Surabaya had been conducted by the midwives.

Description of Informant's Characteristic

Informant who participated in this research were 10 informants with varied

characteristic. This research was conducted in Public Health Centers in Surabaya area and Public Health Office of Surabaya. This research was conducted in Public Health Center of Dupak, Public Health Center of Jagir, Public Health Center of Krembangan Selatan, Public Health Center of Tanah Kali Kedingding, Public Health Center of

Mulyorejo, Public Health Center of Siwalan Kerto, Public Health Center of Gunung Anyar, Public Health Center of Sidotopo, and Public Health Center of Sidotopo Wetan. Meanwhile, the informant was the policy maker and stunting program implementer in each agency.

Result of Structured Interview Analysis Analysis of regional regulation system in Surabaya

Every regulation that was conducted based on the policy, the regulation that was related to stunting was Government Regulation (PP) number 33/2012 about exclusive breast milk, Presidential Regulation number 42/2013 about national movement to accelerate nutrition improvement, planning guideline of national movement to accelerate nutrition for first thousand days of life or 1000 HPK movement had begun since 2013. Besides, it was also appropriate with planning of regional construction in chapter 260, chapter 261, and chapter 262 regarding stunting that was appropriate with planning of national construction, it was coordinated, synergized, and harmonized by Regional Development Planning Agency (BAPPEDA) in Province level. It was also appropriate with 5 pillars of handling stunting, particularly in pillar 2 about national campaign and communication of behavior changes of communication strategy for behavior of stunting prevention, and also there was a facility of stunting policy in regulation of minister of home affairs (*permendagri*) number 22/2018 about Regional Development Work Plan (*RKPD*) in 2019.

Analysis of Fund Source in Stunting Prevention Program in Surabaya

Analysis of fund source from central DIPA about technical orientation of neonatal maternal health, antenatal based on standards, SDIDTK, MTBS, SN-PKPR and Kespro catin etc., fund source from central DIPA about implementation of government matters that became regional authority which was funded by and at the expense of Regional development budget (APBD).⁷

Stunting Fund Allocation Policy

Fund allocations of stunting prevention program were nutrition intervention, maternal and child health service, environment health, pregnant mother and 0-2 years old child, or household of 1.000 HPK. Effort in increasing the effectiveness

from several initiative and program/ activity through support from national leadership, priority decision, and harmonization of this program needed coordination and technical support, high-level advocacy, and cross-sectoral partnerships to accelerate target of nutrition improvement for society which was expected by focusing on nutrition improvement on first 1000 days of life.⁶ The policy maker and program implementer of cross sector had a power to improve the future through developing the intervention of sensitive nutrition that impacted on optimization of either individual nutrition or country. Furthermore, beginning to invest as soon as possible could result better human resource, break the poverty circle, and increase economic development. However, the main goal was synergizing to break the cycle of nutrition problem for the improvement of future generation. Concerning with quite wide opportunity for effort in improving human resource against the impact of trans-generation, recently, Indonesia strengthened more the coordination from several sides.

Support for Allocation of Stunting Funds

Support for allocation of stunting funds facilitated regional government in internalizing SPM in regional development planning documents (RPJMD/RKPD), facilitated regional government in prioritizing SPM in budgeting documents (APBD), conducted a training and monitoring for implementation of government matters, facilitated the publication of Citizenship Registration Number (NIK) and newborn baby certificates.

Purpose of policy for special allocation funds (*DAK*) was in physique TA 2019 and as we knew that, *DAK* in physique was fund that was allocated in regional development budget (APBN) to certain region for donating physical certain activity which was regional matters and it was appropriate with national priority, such as providing basic public service infrastructure and facilities, both for fulfilling minimum service standard (*SPM*) and reaching either national priority or accelerating regional construction and region with certain characteristic for overcoming the differences in public services among regions.

Obstruction in Stunting Fund Allocation

Obstruction in stunting fund allocation was such as coordination in implementing intervention of either specific or

sensitive nutrition, regulation that was related to handling stunting which had not been become as a general base for handling stunting, the access in implementing intervention of specific and sensitive nutrition still had not been integrated, it had not been optimal campaign of dissemination that was related to stunting. Besides, another obstruction was the regency/ city was still late in fulfilling requirements for disbursement of funds. In addition, the requirements were making report of convergence of stunting prevention in regency level in previous fiscal year.

Regulation of Stunting Prevention Program against SPM

Regulation of stunting prevention program against SPM was managed by central policy of SPM PP number 2 in 2018 SPM, policy and regulation which were related to stunting was statute law (UU) number 36 /2009 about health, UU number 18 /2012 about food, RPJMN 2015-201. Moreover, it was needed synchronization of central and regional activities for regulation.⁶

Related Policy with 1000 HPK

Related policy with 1000 HPK in Surabaya was conducted breast milk village program, companion donor “*Towards Platinum City of Surabaya*”, in English was “going toward the platinum generation of Surabaya“ for prospective bride and groom class.

Legality Component Program

Legality componen program, such as decree of work for Head of service, for Public Health Center had not been from the regency/ city or from the Public Health Center itself, but there were the instruments in implementing program, such as SPM, regulation of minister of health (*Permenkes*) and Standard Operating Procedure (SOP) of Public Health Center, using *Permenkes* of 21 years in 2016 about the use of JKN Capitation Fund.

FGD Analysis

The implementation of Focus Group Discussion was conducted on Saturday, 7th September 2019 about policy study and stunting prevention in Surabaya, and the respondents were 10 respondents. From the FGD analysis above, it was obtained policy study about policy of 1000 HPK which was there and it had been conducted, but the

cooperation in cross society had not been occurred, synergy was between institute of central government and regional government, and education institute. All of activities in society inserted with campaign for reducing stunting. After being conducted Focus Group Discussion (FGD) analysis, it was obtained policy recommendations:

4. Synergy of program between Central Government and Regional Government in overcoming stunting.
5. Monitoring about the implementation of 1000 HPK by society.
6. Commitment of human resources for implementation in overcoming stunting in all sectors.

Discussion

Stunting was related to poverty. Concerning with stunting toddlers was not only occurred on low/ poor family, but also on middle/high family. Between poverty and stunting was like a vicious circle.³

The poverty made nutritional adequacy in underprivileged families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.⁴

Result of Nutritional Status Survey in 2017, stunting in Surabaya was 10,78 %, meanwhile in 2018, it was 8,92 %.⁶ Policy of Presidential Regulation in 42/2013 about national movement to accelerate the nutritional improvement focused on rescuing first thousand days of life (1000 HPK) for stunting. In 2015, Surabaya selected to publish the policy of maternal and children safety. This research aimed at analyzing the rescue policy of 1000 HPK and decrease of stunting in Surabaya.

The success of nutrition improvement was a sequel from the success in food supply sector, behavior changes and the increase of knowledge, environment improvement and clean water facility supply, providing employment and the increase of income, and also other various determinant factors. In line with it, handling nutrition problem could not only been conducted by government, but it also needed involvement and support from others, such as development partners, non-governmental organization, universities, professional organization, and community organization. Hence, let's cooperate to improve nutrition condition for

Indonesian toddlers. We are in Ministry of People's Welfare will do coordination to all activities which are done either by government or non-government in improving nutrition for society.

From quantitative data, it was seen that first sequence for stunting problem was seen in Public Health Center of Pucang (20,27 %) and this rate had been below national target, that was 28 %, which meant that it had been success to reduce stunting rate from cumulative percentage. However, if it was seen from the increase in previous year, it was known that in the average, it did not increase significantly. This was because most of Public Health Centers here had conducted the activity of 1000 HPK program.

More over, stunting was correlated with poverty. Nevertheless, case of stunting toddlers was not only occurred on low/ poor family but also on middle/ high family. In other word, it was like a vicious circle between poverty and stunting. The poverty made nutritional adequacy in underprivileged

families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.

Conclusion and Suggestion

The implementation of 1000 HPK program had been conducted as an effort in reducing stunting rate. However, stunting problem still had not been solved. Therefore, it was needed cooperation mutually in cross sector for handling stunting problem, particularly in Surabaya City, East Java Province, Indonesia.

Ethical Clearence: Taken from Health Polytechnic Health Ministry Surabaya committee.

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References

1. Black et al. Maternal And Child Undernutrition: Global And Regional Exposures And Health Consequences. The Lancet Series. 2008. Available from : www.thelancet.com
2. Black, Robert E, CesarG Victora, Susan P Walker, Zulfi qar A Bhutta, Parul Christian, Mercedes de Onis, Majid Ezzati, Sally Grantham-McGregor, Joanne Katz, Reynaldo Martorell, Ricardo Uauy and Maternal and Child Nutrition Study Group†. 2013. "Maternal and child undernutrition and overweight in low-income and middle-income countries." The lancet.
3. Darity, W. A. Stunted Growth. Detroit Macmillan References USA. 2008. International Encyclopedia of The Social Sciences, 2 nd Edition. 8 : 187- 89.
4. Gigante et al. Epidemiology Of Early And Late Growth In Height, Leg And Trunk Length: Findings From A Birth Cohort Of Brazilian Males. European Journal of Clinical Nutrition 2009 : 375-381.
5. Kemenkes RI. Laporan Riset Kesehatan Dasar. Jakarta : Balai Penelitian dan Pengembangan Kesehatan Kementrian Kesehatan RI, 2018.
6. Kemenkes RI. Cegah Stunting dengan Perbaikan Pola Makan, Pola Asuh dan Sanitasi, Kementrian Kesehatan RI, 2018.
7. Kemenkes, RI. Buku Saku Jakarta: Pemantauan Status Gizi , Kementrian Kesehatan RI, 2017.
8. WHO. Complementary feeding family foods for breasged children. 2000 (cited 25 Desember 2014). Available from: whqlibdoc.who.int/hq/2000/who_nhd_00_1.pdf.

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Policy Study and Stunting Prevention in Surabaya

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Abstract

Background: Nutritional Status Survey in 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%).⁸ Conducted study by Ricardo in Bhutta in 2013 stated that stunting toddler contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year.² Result of Basic health research (*Riskesdas*) in 2013 stated that condition of consuming food for pregnant woman and toddlers in 2016-2017 showed in Indonesia, 1 from 5 pregnant women was malnutrition. Decrease of stunting rate only reached 4% in 1992 until 2013. Presidential Regulation number 42/2013 had determined National Movement of First Thousand Days of Life for increasing toddler's nutritional status that was followed by development program, including its budget.⁷

Method: This research was mix method research, which was a step in the research by combining two kinds of approaches, qualitative and quantitative. Besides, this research utilized gradual mix technique. Population in this research was Public Health Centers in Surabaya area. Meanwhile, the sample was all of policyholders in Surabaya, who were Head of Public Health Centers and midwives. This research utilized data analysis in gradual qualitative-quantitative. Not conflict of interest, source of funding self and ethical clearance taken from committee ethic. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

Result and Analysis: Public Health Center of Pucang Surabaya still had the highest stunting rate among 10 Public Health Centers. Public Health Center of Tanah Kali Kedinding Surabaya had quite high increasing rate against stunting from 2017 until 2018. Almost all programs were appropriate with 1000 HPK (1000 first day of life) guidelines in area of Public Health Centers Surabaya that had been done by the midwives. According to FGD result, regulation and policies which were related to 1000 HPK, particularly for regulation of exclusive breast milk and PMBA which had been quite many either in was statute law, Government Regulation, Minister of Health Regulation, Decree of Minister of Health, or Regional Regulation. Handling stunting was done by synergy among central government, regional government, entrepreneur and community organization. High commitment from all health professions was much needed so that it could be able to hasten the decrease of stunting.

Conclusion and Suggestion: the implementation of 1000 HPK program had been conducted as an effort in reducing stunting rate. However, stunting problem still had not been solved. Therefore, it was needed cooperation mutually in cross sector for handling stunting problem, particularly in Surabaya City, East Java Province, Indonesia.

Keywords: *Prevention Stunting, Policy Study, Surabaya.*

Introduction

Nutritional Status Survey (*PSG*) 2017 showed prevalence of stunting toddlers in Indonesia was still high, which was 29,6% above the limitation determined by WHO (20%). Conducted research by Ricardo in

Bhutta in 2013 stated that stunting toddlers contributed against 1,5 million (15%) of toddler mortality in the world and caused 55 millions of children had lost their healthy life time every year. ² Prevalence of stunting in Indonesia has quite stagnant rate from 2007 until

2013.⁶ WHO determined that limitation of nutrition problem was not more than 20%, thus, Indonesia was a country that had health problem for society.⁵ Moreover, this research aimed at studying the policy and gaps that could be solved through policy option which was through analyzing legal document and other literature and programs that had been developed. Then, it was conducted discussion form by involving experts in composing result as the policy option.¹

Material and Method

This research was mix method research, which was a step of research by combining two kinds of approaches, qualitative and quantitative. Population in this research was Public Health Centers in Surabaya. Meanwhile, the sample was all of policyholders in Surabaya area, who were Head of Public Health Center and midwives. This research utilized data analysis in gradual qualitative-quantitative. Hence, the analysis was conducted on qualitative data, then, it was followed by quantitative data.

Findings: Respondents in this research were midwives which the result of basic health research (*Risikesdas*) in 2018 showed that the decrease of stunting prevalence in National level was in 6,4% for 5 years period, from 37,2% (2013) to be 30,8% (2018). Meanwhile, for toddlers who had normal status increased from 48,6% (2013) to be 57,8% (2018). Meanwhile, the other toddlers suffered other nutrition problems⁵

Description of Stunting in Surabaya: Result of Nutritional Status Survey in 2017, stunting in Surabaya was 10,78 %, meanwhile, in 2018, it decreased to be 8,92 %. Research result for stunting data in 10 Public Health Centers in Surabaya in 2017 and 2018 as followed:

Description of Stunting Survey based on 1000 HPK program in Public Health Center: Surabaya is a city that implements 1000 HPK (1000 first day of life) program with good survey. In 10 Public Health Centers through midwives who had responsibility either in the inside or outside of the Public Health Center, it was obtained the result below:

Table 1. Description of Stunting Survey based on 1000 HPK program in Public Health Center

	Done		Undone	
	Σ	%	Σ	%
Intervention of Specific Nutrition on Pregnant Woman Group				
Supplementation of iron folate	78	86,67	12	13,33
Reducing cigarette consumption and air pollution in house	56	62,22	34	37,78
Giving additional food for pregnant woman who was chronic less energy	74	82,22	16	17,78
Overcoming pregnant woman who suffered from intestinal worm	68	75,55	22	24,44
Calcium supplementation for pregnant woman	78	86,67	12	13,33
Intervention of specific nutrition on group of 0-6 months old Baby				
Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
Intervention of specific nutrition on group of 7 – 23 months old Toddler				
Breast feeding promotion (individual and group counseling)	74	82,22	16	17,78
Communication of behavior changes for improving in giving complementary feeding	70	77,78	20	22,22
Zinc supplementation	72	80,00	18	20,00
Zinc for diarrhea management	69	76,67	21	23,33
Vitamin A supplementation	86	95,55	4	4,44
Giving iodine salt	75	83,33	15	16,67
Preventing acute malnutrition	68	75,55	22	24,44
Giving anthelmintic drug	86	95,55	4	4,44
Iron fortification and supplementation activity	80	88,89	10	11,11

	Done		Undone	
	Σ	%	Σ	%
Intervention of sensitive nutrition				
Providing clean water	66	73,33	24	26,67
Food security and nutrition (giving additional food for pregnant woman who was chronic less energy)	71	78,89	19	21,11
Birth limitation	63	70,00	27	30,00
Health insurance	60	66,67	30	33,33
Basic childbirth insurance	60	66,67	30	33,33
Food fortification (vitamin A supplement)	71	78,89	19	21,11
Nutrition education for society (breast feeding promotion through individual and group counseling)	72	80,00	18	20,00
Intervention for female teenagers	63	70,00	27	30,00

Almost all programs which were appropriate with 1000 HPK guideline in Public Health Centers in Surabaya had been conducted by the midwives.

Description of Informant's Characteristic:

Informant who participated in this research were 10 informants with varied characteristic. This research was conducted in Public Health Centers in Surabaya area and Public Health Office of Surabaya. This research was conducted in Public Health Center of Dupak, Public Health Center of Jagir, Public Health Center of Krembangan Selatan, Public Health Center of Tanah Kali Kedingding, Public Health Center of Mulyorejo, Public Health Center of Siwalan Kerto, Public Health Center of Gunung Anyar, Public Health Center of Sidotopo and Public Health Center of Sidotopo Wetan. Meanwhile, the informant was the policy maker and stunting program implementer in each agency.

Result of Structured Interview Analysis:

Analysis of regional regulation system in Surabaya: Every regulation that was conducted based on the policy, the regulation that was related to stunting was Government Regulation (PP) number 33/2012 about exclusive breast milk, Presidential Regulation number 42/2013 about national movement to accelerate nutrition improvement, planning guideline of national movement to accelerate nutrition for first thousand days of life or 1000 HPK movement had begun since 2013. Besides, it was also appropriate with planning of regional construction in chapter 260, chapter 261 and chapter 262 regarding stunting that was appropriate with planning of national construction, it was coordinated,

synergized and harmonized by Regional Development Planning Agency (BAPPEDA) in Province level. It was also appropriate with 5 pillars of handling stunting, particularly in pillar 2 about national campaign and communication of behavior changes of communication strategy for behavior of stunting prevention and also there was a facility of stunting policy in regulation of minister of home affairs (*permendagri*) number 22/2018 about Regional Development Work Plan (*RKPD*) in 2019.

Analysis of Fund Source in Stunting Prevention Program in Surabaya: Analysis of fund source from central DIPA about technical orientation of neonatal maternal health, antenatal based on standards, SDIDTK, MTBS, SN-PKPR and Kespro catin etc., fund source from central DIPA about implementation of government matters that became regional authority which was funded by and at the expense of Regional development budget (APBD).⁷

Stunting Fund Allocation Policy: Fund allocations of stunting prevention program were nutrition intervention, maternal and child health service, environment health, pregnant mother and 0-2 years old child, or household of 1.000 HPK. Effort in increasing the effectiveness from several initiative and program/activity through support from national leadership, priority decision and harmonization of this program needed coordination and technical support, high-level advocacy and cross-sectoral partnerships to accelerate target of nutrition improvement for society which was expected by focusing on nutrition improvement on first 1000 days

of life.⁶ The policy maker and program implementer of cross sector had a power to improve the future through developing the intervention of sensitive nutrition that impacted on optimization of either individual nutrition or country. Furthermore, beginning to invest as soon as possible could result better human resource, break the poverty circle and increase economic development. However, the main goal was synergizing to break the cycle of nutrition problem for the improvement of future generation. Concerning with quite wide opportunity for effort in improving human resource against the impact of trans-generation, recently, Indonesia strengthened more the coordination from several sides.

Support for Allocation of Stunting Funds:

Support for allocation of stunting funds facilitated regional government in internalizing SPM in regional development planning documents (RPJMD/RKPD), facilitated regional government in prioritizing SPM in budgeting documents (APBD), conducted a training and monitoring for implementation of government matters, facilitated the publication of Citizenship Registration Number (NIK) and newborn baby certificates.

Purpose of policy for special allocation funds (DAK) was in physique TA 2019 and as we knew that, DAK in physique was fund that was allocated in regional development budget (APBN) to certain region for donating physical certain activity which was regional matters and it was appropriate with national priority, such as providing basic public service infrastructure and facilities, both for fulfilling minimum service standard (SPM) and reaching either national priority or accelerating regional construction and region with certain characteristic for overcoming the differences in public services among regions.

Obstruction in Stunting Fund Allocation:

Obstruction in stunting fund allocation was such as coordination in implementing intervention of either specific or sensitive nutrition, regulation that was related to handling stunting which had not been become as a general base for handling stunting, the access in implementing intervention of specific and sensitive nutrition still had not been integrated, it had not been optimal campaign of dissemination that was related to stunting. Besides, another obstruction was the regency/city was still late in fulfilling requirements for disbursement of funds. In addition, the requirements were making report of convergence of stunting prevention in regency level in previous fiscal year.

Regulation of Stunting Prevention Program against SPM: Regulation of stunting prevention program against SPM was managed by central policy of SPM PP number 2 in 2018 SPM, policy and regulation which were related to stunting was statute law (UU) number 36/2009 about health, UU number 18/2012 about food, RPJMN 2015-201. Moreover, it was needed synchronization of central and regional activities for regulation.⁶

Related Policy with 1000 HPK: Related policy with 1000 HPK in Surabaya was conducted breast milk village program, companion donor “*Towards Platinum City of Surabaya*”, in English was “going toward the platinum generation of Surabaya” for prospective bride and groom class.

Legality Component Program: Legality componen program, such as decree of work for Head of service, for Public Health Center had not been from the regency/city or from the Public Health Center itself, but there were the instruments in implementing program, such as SPM, regulation of minister of health (*Permenkes*) and Standard Operating Procedure (SOP) of Public Health Center, using *Permenkes* of 21 years in 2016 about the use of JKN Capitation Fund.

FGD Analysis: The implementation of Focus Group Discussion was conducted on Saturday, 7th September 2019 about policy study and stunting prevention in Surabaya and the respondents were 10 respondents. From the FGD analysis above, it was obtained policy study about policy of 1000 HPK which was there and it had been conducted, but the cooperation in cross society had not been occurred, synergy was between institute of central government and regional government and education institute. All of activities in society inserted with campaign for reducing stunting. After being conducted Focus Group Discussion (FGD) analysis, it was obtained policy recommendations:

Synergy of program between Central Government and Regional Government in overcoming stunting.

Monitoring about the implementation of 1000 HPK by society.

Commitment of human resources for implementation in overcoming stunting in all sectors.

Discussion

Stunting was related to poverty. Concerning with

stunting toddlers was not only occurred on low/poor family, but also on middle/high family. Between poverty and stunting was like a vicious circle.³

The poverty made nutritional adequacy in underprivileged families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.⁴

Result of Nutritional Status Survey in 2017, stunting in Surabaya was 10,78 %, meanwhile in 2018, it was 8,92 %.⁶ Policy of Presidential Regulation in 42/2013 about national movement to accelerate the nutritional improvement focused on rescuing first thousand days of life (1000 HPK) for stunting. In 2015, Surabaya selected to publish the policy of maternal and children safety. This research aimed at analyzing the rescue policy of 1000 HPK and decrease of stunting in Surabaya.

The success of nutrition improvement was a sequel from the success in food supply sector, behavior changes and the increase of knowledge, environment improvement and clean water facility supply, providing employment and the increase of income and also other various determinant factors. In line with it, handling nutrition problem could not only been conducted by government, but it also needed involvement and support from others, such as development partners, non-governmental organization, universities, professional organization and community organization. Hence, let's cooperate to improve nutrition condition for Indonesian toddlers. We are in Ministry of People's Welfare will do coordination to all activities which are done either by government or non-government in improving nutrition for society.

From quantitative data, it was seen that first sequence for stunting problem was seen in Public Health Center of Pucang (20,27 %) and this rate had been below national target, that was 28 %, which meant that it had been success to reduce stunting rate from cumulative percentage. However, if it was seen from the increase in previous year, it was known that in the average, it did not increase significantly. This was because most of Public Health Centers here had conducted the activity of 1000 HPK program.

More over, stunting was correlated with poverty. Nevertheless, case of stunting toddlers was not only

occurred on low/poor family but also on middle/high family. In other word, it was like a vicious circle between poverty and stunting. The poverty made nutritional adequacy in underprivileged families unfulfilled, thus, the malnourished pregnant mother would give birth the malnourished baby and stunting. Moreover, stunting toddlers who could not be intervened for first 1.000 days of life would grow up and have less productive and low quality of life.

Conclusion and Suggestion

The implementation of 1000 HPK program had been conducted as an effort in reducing stunting rate. However, stunting problem still had not been solved. Therefore, it was needed cooperation mutually in cross sector for handling stunting problem, particularly in Surabaya City, East Java Province, Indonesia.

Ethical Clearence: Taken from Health Polytechnic Health Ministry Surabaya committee.

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References

1. Black et al. Maternal And Child Undernutrition: Global And Regional Exposures And Health Consequences. The Lancet Series. 2008. Available from : www.thelancet.com
2. Black, Robert E, CesarG Victora, Susan P Walker,Zulfi qar A Bhutta, Parul Christian, Mercedes de Onis,Majid Ezzati,Sally Grantham-McGregor, Joanne Katz, Reynaldo Martorell, Ricardo Uauy and Maternal and Child Nutrition Study Group†. 2013." Maternal and child undernutrition and overweight in low- income and middle-income countries." The lancet.
3. Darity, W. A. Stunted Growth. Detroit Macmillan References USA. 2008. International Encyclopedia of The Social Sciences, 2 nd Edition. 8 : 187- 89.
4. Gigante et al. Epidemiology Of Early And Late Growth In Height, Leg And Trunk Length: Findings From A Birth Cohort Of Brazilian Males. European Journal of Clinical Nutrition 2009 : 375-381.
5. Kemenkes RI. Laporan Riset Kesehatan Dasar. Jakarta: Balai Penelitian dan Pengembangan Kesehatan Kementrian Kesehatan RI, 2018.

6. Kemenkes RI. Cegah Stunting dengan Perbaikan Pola Makan, Pola Asuh dan Sanitasi, Kementerian Kesehatan RI, 2018.
7. Kemenkes, RI. Buku Saku Jakarta: Pemantauan Status Gizi, Kementerian Kesehatan RI, 2017.
8. WHO. Complementary feeding family foods for breastfed children. 2000 (cited 25 Desember 2014). Available from: whqlibdoc.who.int/hq/2000/who_nhd_00.1.pdf.