



Ministry Of Health
Republic Of Indonesia



Penelitian dan Pengembangan Kesehatan

REGIONAL SYMPOSIUM

Yogyakarta, 9-12 Oktober 2012

PROGRAMME BOOK





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was 6-8 PM. Conclusion : breeding places of Anopheles that the highest Anopheles larvae per dip concentration was among fishpond.

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68. IN VITRO AND IN OVO INHIBITION OF TYPE-A AVIAN INFLUENZA VIRUS BY XANTHONE DERIVATES FROM GARCINIA MANGOSTANA LINN FRUIT RIND

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Mangosteen fruit (*Garcinia mangostana* Linn) is very popular in Indonesia. Experimental studies have demonstrated that extracts of GML have antiviral activities. The pericarp of GML is a source of xanthenes. The two most beneficial xanthenes have been named $\hat{1}\pm$ -mangostin and $\hat{1}^3$ -mangostin. The $\hat{1}\pm$ -mangostin and $\hat{1}^3$ -mangostin in pericarp extract of GML previously used as HIV-1 protease inhibitor and now becoming an emerging investigational antiviral drug due to its protease inhibitor has the same type with avian influenza virus. To explore this possibility, n-hexane, ethyl acetate, and methanol extracts from some GML were investigated for their $\hat{1}\pm$ -mangostin, dan $\hat{1}^3$ -mangostin inhibitory activities using high performance liquid chromatography (HPLC). For in ovo study, eggs from Lohmann type between 9 and 11 days of age were used and injected with different levels of $\hat{1}\pm$ - and $\hat{1}^3$ -mangostin extract at 30 days of incubation. There were five treatments and ten replicates allocated to each treatment. The extracts and compounds were also evaluated using a range of concentrations in the in vitro Vero cell. The aim of this review is to summarize findings of beneficial properties on $\hat{1}\pm$ - and $\hat{1}^3$ -mangostin of GML extracts as avian influenza protease inhibitors. Although this evidence is still far from being definitive, the results so far

obtained suggest that protease inhibitor should be seriously taken into consideration for further testing as potential therapeutic agents for avian influenza. Further studies need to be done in order to investigate effects of GML extracts as avian influenza antiviral in human. Keywords : *Garcinia mangostana* Linn, type-A influenza, extract, protease inhibitor, $\hat{1}\pm$ - and $\hat{1}^3$ -mango

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69. ASSOCIATION BETWEEN IRON INTAKE AND ANEMIA IN THIRD TRIMESTERS PREGNANCY AT BUNGUS HEALTH CENTER, PADANG IN 2012.

Mery Ramadani, Suryati, Bertha Helena
Faculty of Public Health Andalas University

Background: Anemia is one of the most frequent complications related to pregnancy. Severe anemia may have adverse effects on the mother and the fetus. There is evidence that less severe anemia is associated with poor pregnancy outcome. Bungus is the second highest for incidence of anemia in Padang city. Objectives: The objective of this research was to know the association between Iron intake and anemia at work areas of Bungus Health Centre, Padang in 2012. Methods: Cross sectional design was used in this research. The respondents were pregnant women in third trimester. Assessment of iron intake using food recall method. Results: This research found out that 60% of pregnant women have anemia, 76.2% among them have low iron intake. Conclusions: There was association between iron intake and incidence of anemia. Pregnant women who have inadequate intake of iron are 18 times risk to get anemia than pregnant women who have adequate iron intake adjusted by protein intake and iron supplementation. Iron intake is important

ence of anemia, therefore pregnant women should have adequate iron diets to achieve optimal health for maternal and fetal.

DEVELOPMENT OF COMMUNITY HEALTH CENTER NETWORKING AND PREVIEW OF COMMUNITY HEALTH CENTER HUMAN RESOURCES IN BEKASI CITY

Raharni, Apt, MKes, Rini Sasanti H
Unit Pelaksana Teknis Dinas Kesehatan Kabupaten/Kota (UPTD) Masyarakat (Pusat 3)

Backgrounds Community health center is a functional implementation unit in District/City Health Office (UPTD) which is responsible for health development in an area of work. It is generally located in district level administrative areas. Health care services that are managed by the community health center provide primary health care, i.e. for the individual and public health effort, and it requires adequate health care resources in terms of quantity and quality. On the other hand, community health center networking development is needed to support primary health care services to be closer to the community. Objectives The objective of this study is to provide the community health center networking development and an overview of community health center human resources in Bekasi city, so that health care services could be run in accordance to the needs. Methods The research design was cross-sectional and the study used a desk review to examine the various references of documents required in the community health centers and sub of community health centers (Pustu) in Bekasi city. Conclusions The study shows the availability of human resources in community health centers in Bekasi city was still not sufficient and did not meet the needs especially of nurses, midwives and labor analyst, assistant

pharmacist. The resources allocation has not been based on the right health education accordingly. Distribution of medical personnel especially specialists in community health centers in Bekasi city was uneven and the general doctor look not proportionate, because there are some community health centers have only one general practitioner. Not all of community health centers in Bekasi city have human resources who specializes in supporting pharmaceutical drugs and pharmacies. Thus, efforts were gradually provided resources in accordance with the field work and the provision of training, so that the health service can be run better. Based on the location of community health centers, it was various, i.e. in the residential, the community health center occupies the unclear ownership land title, i.e. the public/ social facility, in the office area is government owned land and some occupy the waqf land. Community health center networking development is performed through the development and establishment of sub community health center (Pustu) for residential areas that located far from the reach of community health centers and the provision of mobile community health centers for health services to be closer to the community. Key word: Community Health Center, Networking Development, Human resources, COMMUNITY HEALTH CENTER NETWORKING DEVELOPMENT AND PREVIEW OF COMMUNITY HEALTH CENTER HUMAN RESOURCES IN BEKASI CITY Abstrak Puskesmas merupakan Unit Pelaksana Teknis Dinas Kesehatan Kabupaten/Kota (UPTD) yang bertanggungjawab menyelenggarakan pembangunan kesehatan di suatu wilayah kerja yang pada umumnya berada ditingkat wilayah administrasi kecamatan. Pelayanan kesehatan yang diselenggarakan puskesmas adalah pelayanan kesehatan dasar yaitu upaya kesehatan perorangan dan upaya kesehatan masyarakat, memerlukan tenaga





ASSOCIATION BETWEEN IRON INTAKE AND ANEMIA IN THIRD TRIMESTERS PREGNANCY AT BUNGUS HEALTH CENTRE, PADANG IN 2012.

Mery Ramadani* Suryati* Bertha**

Background:

Anemia is one of the most frequent complications related to pregnancy. The most common true anemia during pregnancy is iron deficiency anemia. Severe anemia may have adverse effects on the mother and the fetus. There is also evidence that less severe anemia is associated with poor pregnancy outcome. Bungus was the second highest for incidence of anemia in Padang city.

Method: Cross sectional design was used in this research. The respondents were pregnant women in third trimesters. Primary data directly measured level of respondents hemoglobin and assessment of iron intake using food recall method.

Objectives: The objective of this research was to know the association between Iron intake and anemia at working areas of Bungus Health Centre, Padang in 2012.

Results:

This research found out that 60% of pregnant women have anemia, and 76.2% among them have low iron intake. There was association between iron intake and incidence of anemia. After going through the analysis of interaction and confounding assessment, which formed the final model is a model without the interaction. Protein intake and iron supplementation as a confounder.

Final Model

Variable	B	S.E.	Wald	Df	Nilai P	OR	95%CI
Iron Intake	2.898	1.226	5.591	1	0.018	18.145	1,642-20,523
Protein intake	-0.514	1.055	0.237	1	0.627	0.598	
Iron Supplementation	-2.635	1.420	3.445	1	0.063	0.072	
Constant	-0.530	0.615	0.741	1	0.389	0.589	

Conclusions:

Pregnant women who have inadequate intake of iron, 18 times risk to get anemia than pregnant women who have adequate iron intake after adjusted by protein intake and iron supplementation. Iron intake is important in incidence of anemia, therefore pregnant women should have adequate iron diets to provide optimal health for maternal and infant. Red meat, poultry, and fish are all good sources of heme iron. If your diet does not include animal protein, you can get iron from legumes, vegetables, and grains. To make sure you are getting enough, eat a variety of iron-rich foods every day.

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