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# Health effects of modernization in suburban village, Solomon Islands

Dear Japanese Students

Nice to meet you. We are writing to inform you about health effect of modernization in a South Pacific country, Solomon Islands.

Thanks to modernization, prevalence of malaria has been reducing



in urban area. But now, obese purchased food people have been increasing.

**S**uburban villages also have

been modernizing such as cash economy, dependency on purchased food and so on.

**D**o Suburban villages follow the same pattern of urban area? What do you think? Now, let's look one of the suburban villages — East Tasimboko.

#### Solomon Islands

capital: Honiara

population : 506,967(2008) •religion : Christianity (98 %)

• ethnic group : Melanesians (93%)

resident area: 83% live in rural areas · main income source : agriculture,



fishing, food gathering



Guadalcanal

located 50 km to the east of the capital

#### BACKGROUND (East Tasimboko



→noodles, rice, been



#### Infrastructure

no electricity, gas, running water

use a tank to keep



#### **Developing country** × modernization

In general, Socio-economic development has been said to be accompanied by an epidemiological and nutrition transition.

#### Modernization makes them happy?

- •Improved nutritional status?
- Reduce the prevalence of malaria?

## People

bath

Infection

no clinic

(now, under construction) Social Organizations like JICA provide health service

**Health service** 

and mosquito net

· malaria

### Let's check it out!!

#### **OBJECTIVES**

- 1. to reveal nutritional status of children and adults
- 2. to examine prevalence of malaria by age group
- 3. to think about

how we can support them

#### METHODOLOGY

Jubject			
		female	
hildren	271	193	
dulta	258	272	

Subject

1. Nutritional status

measure Height

Weight



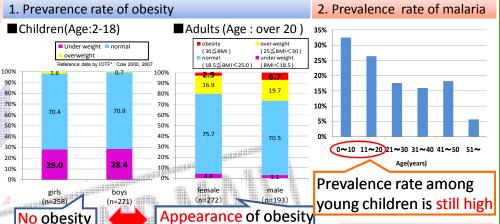
#### 2. Prevalence of malaria

After collecting blood, use microscopic and diagnosis





#### RESULTS



Follow up dietary habit and BMI

Inform appropriate preventive methods

#### **FUTURE APPROACH**

#### How we can support them??

- 1. Follow up their nutritional status and the cause of malaria prevalence
- 2. Report health status of study area to Ministry of Public Health
- 3. Carry out health education of dietary habit and malaria prevention

#### And Next challenge is...

to do research of their dietary intake, energy expenditure and their attitude against malaria

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Many thanks for reading our study.. I would be very happy to hear from you. From Hideaki Takahashi, Chiaki Maeda Laboratory of Human Ecology, Graduate School of Health sciences, Hokkaido University