

TINJAUAN KEBANGSAAN KESIHATAN DAN MORBIDITI

NATIONAL HEALTH AND MORBIDITY SURVEY (NHMS)

SESI YANG BERHORMAT MENTERI KESIHATAN BERSAMA MEDIA BAGI PEMBENTANGAN HASIL TINJAUAN KEBANGSAAN KESIHATAN & MORBIDITI (NHMS) 2015

> Dewan Serbaguna, Aras 8, Blok E7 Kompleks E, Putrajaya 6 Jun 2016 (Isnin) 9.30 Pagi – 12.00 Tengahari





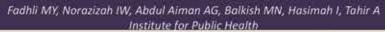


TITLE	PAGE
National Health and Morbidity Survey: An Overview	1
National Health and Morbidity Survey: Methodology	2
Prevalence of Diabetes in Malaysia	3
Trend of Diabetes in Malaysia	4
Hypertension: Think you don't have it?	5
Trend of Hypercholesterolemia in Malaysia	6
Trends of Smoking among Malaysian Adult	7
Smokeless Tobacco Use: Malaysian Scenario	8
Tobacco And Teenager	9
Alarming Trend of Overweight and Obesity Among	10
Malaysian Adults (Poster 1)	
Alarming Trend of Overweight and Obesity Among	11
Malaysian Adults (Poster 2)	
Trend of Nutritional Status Among Malaysian Adult	12
Nutritional Status of Malaysian Children < 18 Years Old	13
Fruit Consumption: Do Malaysians get enough?	14
Vegetable Consumption: Do Malaysian adults get enough?	15
How active are we Malaysians?	16
Trend of Alcohol Use in Malaysia	17
Anaemia in Malaysia : Do we need to worry?	18
Healthcare Demand : How do the population seek	19
care when they are sick?	
Healthcare Demand : Use of Healthcare Services in Malaysia	20
Healthcare Demand : How do the population perceive	21
Malaysia's healthcare delivery systems?	
Traditional and Complementary Medicine (Poster 1)	22
Traditional and Complementary Medicine (Poster 2)	23
Traditional and Complementary Medicine (Poster 3)	24



NATIONAL HEALTH AND MORBIDITY SURVEY:

AN OVERVIEW





The National Health and Morbidity Survey (NHMS) is a nationally representative health survey of population in Malaysia. It was first initiated in 1986 and has been an important method for monitoring the health of the population and utilisation of healthcare services in Malaysia.



Five Main NHMS

NHMS 1986 NHMS 1996 NHMS 2006

NHMS 2011 NHMS 2015 The interval of NHMS has been shortened from every 10 years to a 4 yearly cycle since 2011 to ensure timely information is obtained for planning of health programs. The National Health and Morbidity Survey 2015 was conducted as the first survey in a new cycle of NHMS (2015-2018).

SCOUTING AND DATA COLLECTION

NHMS 2015 has repeated most of the modules in the previous NHMS especially on health care demands, health service utilisations, noncommunicable diseases and the risk factors. A few other modules such as on traditional and complementary medicine, mental health and disability were also included.



DISSEMINATION OF RESULTS IN CONFERENCES



UTILISATION OF RESULTS BY GOVERNMENT AGENCIES,
STAKEHOLDERS & RESEARCHERS





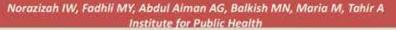




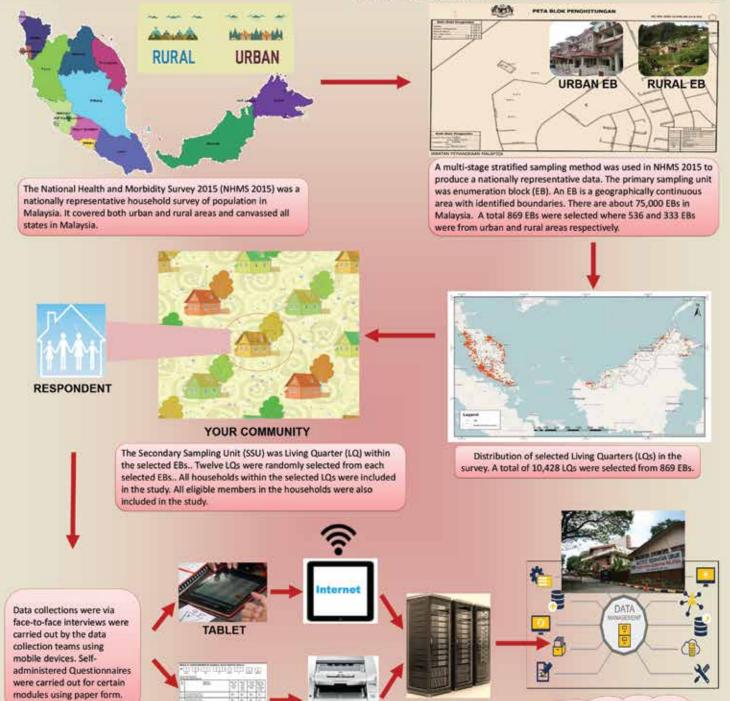


NATIONAL HEALTH AND MORBIDITY SURVEY 2015:

METHODOLOGY

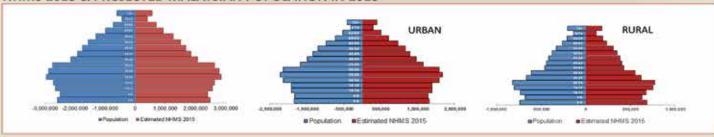






POPULATION PYRAMID: COMPARISON OF ESTIMATED POPULATION BASED ON NHMS 2015 & PROJECTED MALAYSIAN POPULATION IN 2015

PAPER



SERVER

IKU

Data Combined into

Statistics



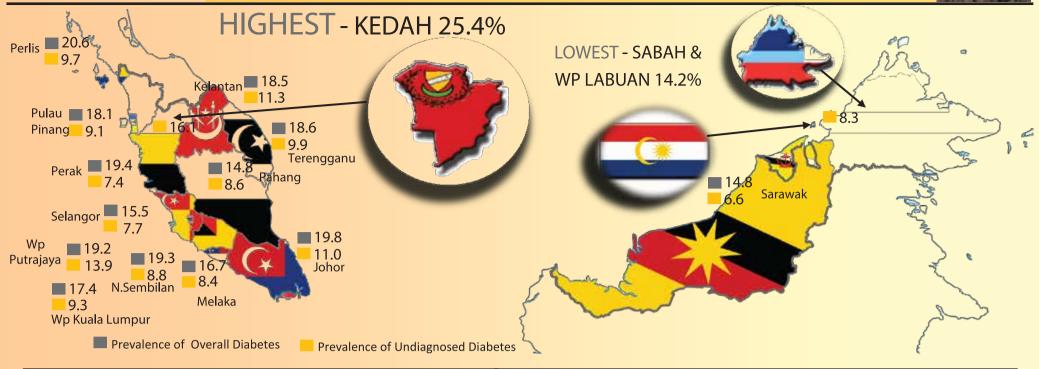
PREVALENCE OF DIABETES IN MALAYSIA

National Health and Morbidity Survey 2015

Hasimah I, Tahir A, Fadhli MY







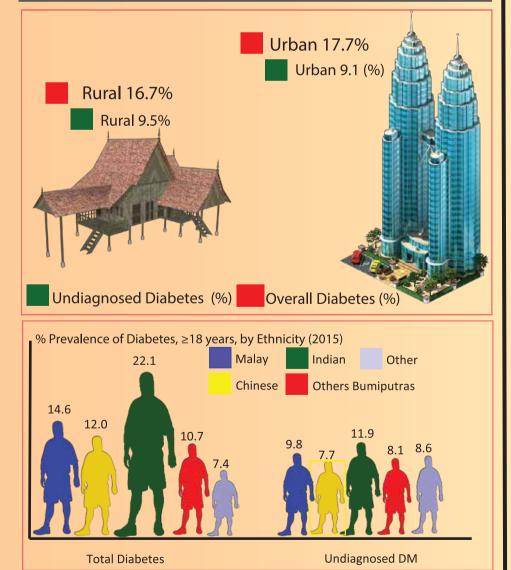
Definitions:

- Known diabetes: Respondent being told to have diabetes by a doctor or medical officer (MO)
- Undiagnosed diabetes: Respondents not known to have diabetes and had a fasting capillary glucose ≥ 6.1 mmol/L or random blood glucose ≥11.2 mmol/L (CardioChek®)
- Impaired fasting glucose: Respondents not know to have diabetes and had a fasting capillary glucose ≥ 5.6 to <6.1 mmol/L (CardioChek@)</p>

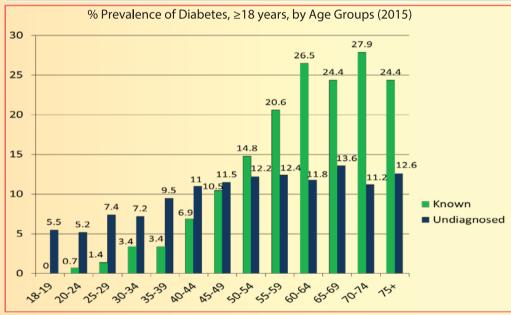
Key Messages :

- 17.5% of Malaysians aged ≥18 years had diabetes in the year 2015
- 9.2% of Malaysians aged ≥18 years had undiagnosed diabetes
- 4.7% of Malaysians aged ≥18 years had
 impaired fasting glucose
- Indians had the highest prevalence of diabetes at 22.1% followed by Malays at 14.6% and Chinese at 12.0%

1 in 5 (3.5 Million) Malaysians adult aged 18 years and above had diabetes



1 in 10 (1.8 Million) Malaysians adult aged 18 years and above had undiagnosed diabetes





RECOMMENDATIONS



- a. Control and maintain ideal body weight
- b. Be physically active
- c. Practice healthy diet of fresh vegetables and fruits
- d. Stop smoking

- e. Check blood sugar regularly
- f. Avoid the use of alcohol
 - g. For known diabetics, take medications as recommended and practice healthy lifestyle



TREND OF DIABETES IN MALAYSIA

National Health and Morbidity Survey
Hasimah I, Tahir A, Fadhli MY

Institute for Public Health, Ministry Of Health Malaysia



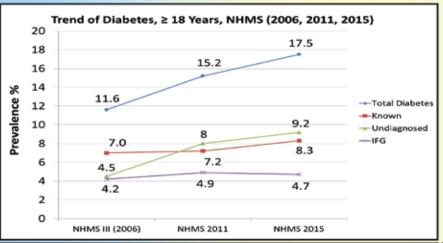


Diabetes is a global epidemic with an increasing trend and causes significant health and economic burden especially in the developing countries

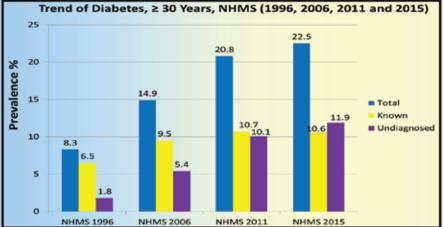
It is an important public health problem because of its high prevalence and detrimental sequellae

Definitions:

- Known diabetes: Respondent being told to have diabetes by a doctor or medical officer
- Undiagnosed diabetes: Respondents not known to have diabetes and had a fasting capillary glucose ≥ 6.1 mmol/L or random blood glucose ≥11.2 mmol/L (CardioChek®)
- Impaired fasting glucose: Respondents not known to have diabetes and had a fasting capillary glucose ≥ 5.6 to <6.1 mmol/L (CardioChek®)

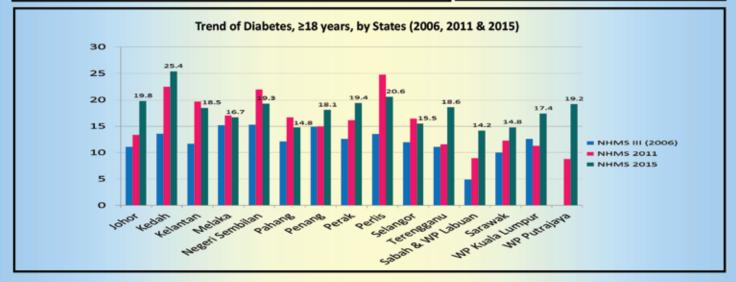


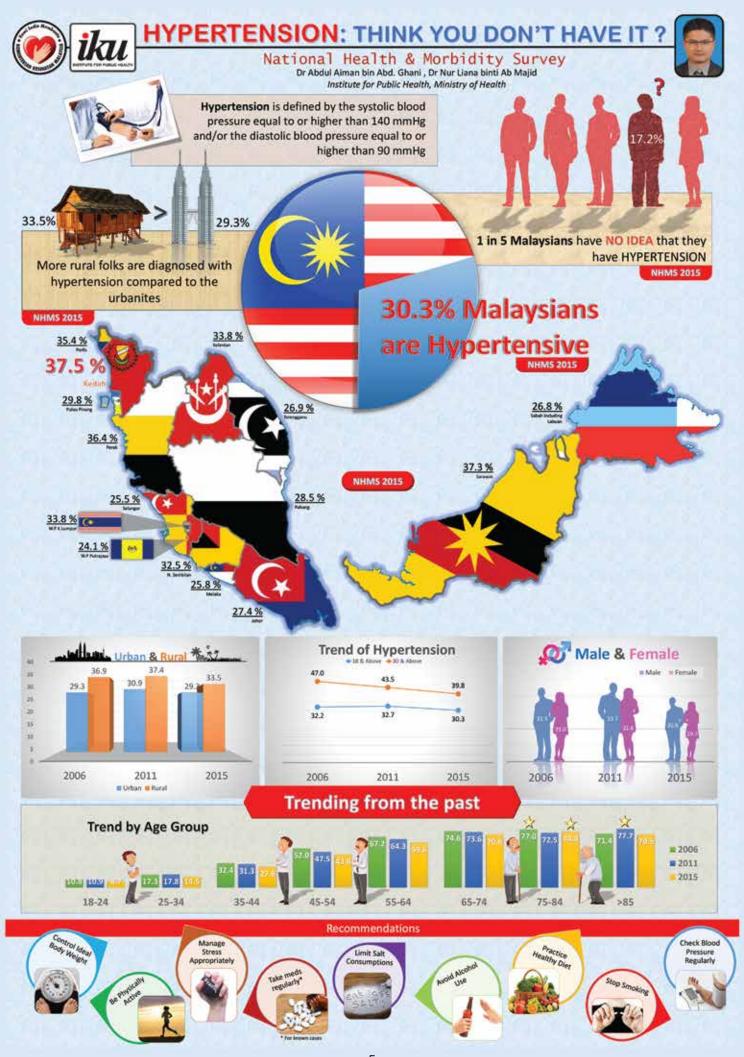




RECOMMENDATIONS:

- 1. Control and maintain ideal body weight
- 2. Be physically active
- 3. Practice healthy diet of fresh vegetables and fruits
- 4. Stop smoking
- 5. Check blood sugar regularly
- 6. Avoid the use of alcohol
- For known diabetics, take medications as recommended and practice healthy lifestyle







TREND OF HYPERCHOLESTEROLEMIA IN MALAYSIA

Nor Azian MZ , Fadhli Y, Hashimah I, Abdul Aiman AG, Rashidah A, Nor Shahida AA, Syafinaz S, Tahir A Institute for Public Health





Hypercholesterolemia is a major cardiovascular disease (CVD) risk factor such as heart disease and stroke. Hypercholesterolemia is defined as fasting total plasma cholesterol more than 5.2 mmol/L.2



1 IN 2 MALAYSIANS ADULT **AGE 18 YEARS AND ABOVE HAD** HIGH CHOLESTEROL LEVEL







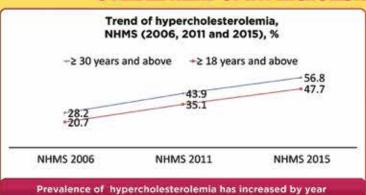
47.7% (9.6 million) OVERALL HYPERCHOLESTEROLEMIA

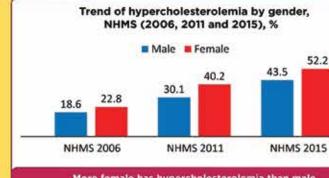


HOLESTE

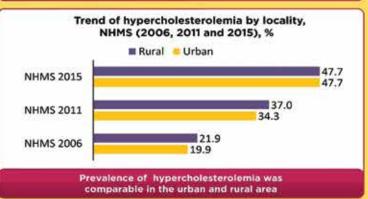
52.2

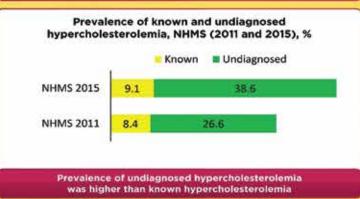
OVERALL TREND OF HYPERCHOLESTEROLEMIA AMONG MALAYSIAN ADULTS

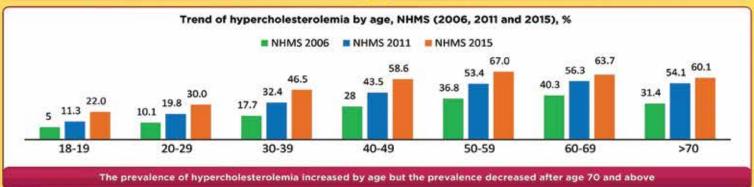




More female has hypercholesterolemia than male







RECOMMENDATION

- Control and maintain ideal body weight
- Be physically active
- Practice healthy diet of fresh vegetables and fruits
- Stop smoking
- Avoid the use of alcohol
- 6. Take medications, if recommended and practice healthy lifestyle

REFERENCES



TRENDS OF SMOKING

AMONG MALAYSIAN ADULTS, 1996-2015

(National Health and Morbidity Survey & Global Adult Tobacco Survey)

Tee Guat Hiong¹, Lim Kuang Kuay¹, Mohd Azahadi Omar¹, Chan Ying Ying¹, Tahir Aris¹, Noraryana Hassan², Nizam Baharom² ¹Institute for Public Health, Ministry of Health Malaysia, ²Disease Control Division, Ministry of Health Malaysia





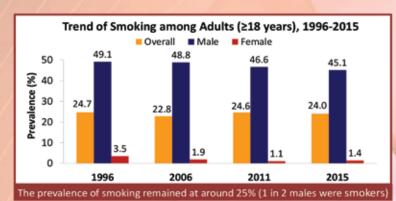
1 in 4 (4.8 millions)

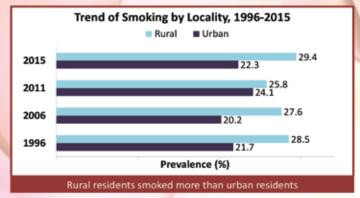


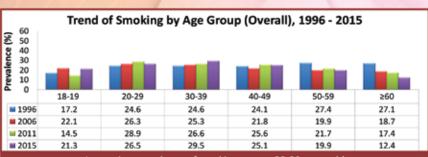


2015 Current Smokers

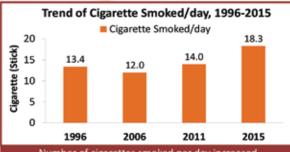
- Smoking accounts for 15% of hospitalisation and 35% of in-hospital deaths in Malaysia
- Smoking kills 20,000 Malaysians every year
- Current smoker is defined as currently smoking either daily or occasionally



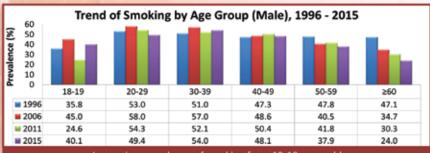




Increasing prevalence of smoking among 30-39 years old and decreasing prevalence among ≥60 years old



Number of cigarettes smoked per day increased from 14 to 18 sticks from 2011 to 2015



Increasing prevalence of smoking from 18-19 years old and decreasing prevalence from 50-59 years old



Older aged women smoked more in 1996 and 2006 (≥50 years old)

Younger aged women smoked more in 2015 (20-39 years old)

Recommendations



- To improve primary and secondary prevention programmes by tailoring towards the needs of vulnerable groups especially youths and females.
- To strengthen nicotine addiction therapy to reduce the average number of cigarettes smoked per day. Cessation services must be expanded for accessibility to service providers and pharmacotherapy.
- To provide centralised national quit line, this would be beneficial to increase the efficacy of cessation programme.





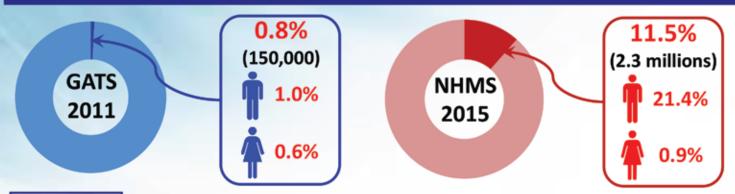
SMOKELESS TOBACCO USE: MALAYSIAN SCENARIO

(National Health and Morbidity Survey & Global Adult Tobacco Survey)



Tee Guat Hiong¹, Mohd Azahadi Omar¹, Chan Ying Ying¹, Lim Kuang Kuay, Tahir Aris¹, Noraryana Hassan², Nizam Baharom²

¹Institute for Public Health, Ministry of Health Malaysia; ² Disease Control Division, Ministry of Health Malaysia





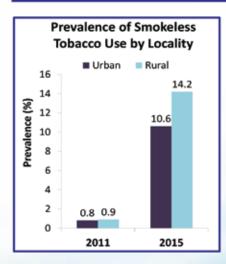


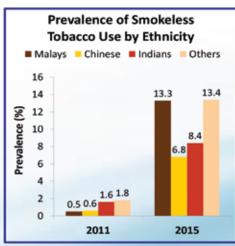


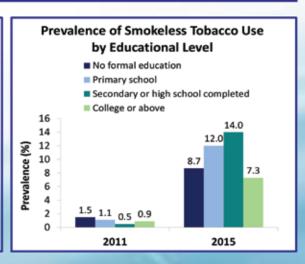


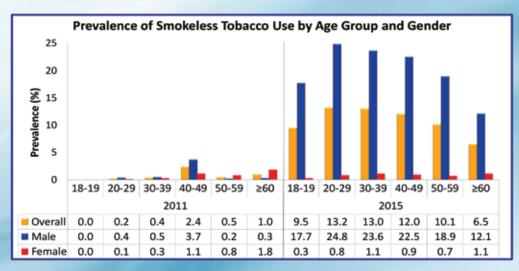
Smokeless Tobacco

- At least 28 chemicals in smokeless tobacco have been found to cause cancer such as oral cancer
- No form of smokeless tobacco is a safe substitute for cigarettes









Recommendations

- To explore the sudden increased in the usage of smokeless tobacco.
- To conduct further study in determining the situation of vapping in Malaysia.
- To continue promotion and advocating on anti vapping, anti smoking and all forms of smoking habits.



TOBACCO AND TEENAGER





Noor Ani Ahmad, S Maria Awaluddin, Mohammad Aznuddin Abd Razak, Rajini Sooryanarayana, Mohd Kamal Ariff Abd Ghani, Norhafizah Sahril, Chan Ying Ying, Muslimah Yusof, Noraida Mohd Kasim, Rahama Samad, Tahir Aris

Institute for Public Health, Ministry of Health Malaysia

1 in 10

Malaysian aged 13 to 17 yr

smoked





9 in 10 teenage smokers had attempted to quit smoking

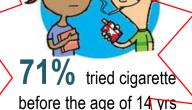
4 in 10 teenagers were exposed to secondhand smoke



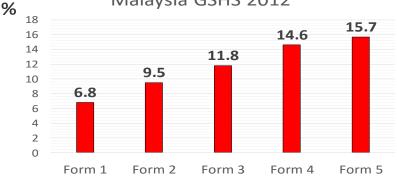
4 in 10 teenagers had parents/ guardians who smoked

who smoked?

2 in 10 boys 2 in 100 girls



Current smoking among teemagers, Malaysia GSHS 2012



We recommend to...

- 1.use creative and innovative approaches such as through social media to increase awareness of the detrimental effect of tobacco
- 2.initiate intervention strategies at primary schools
- 3.strengthen resiliency among teenagers
- 4.create supportive environment: advocate clean air, free from tobacco smoke



Alarming Trend of Overweight and Obesity Among Malaysian Adults (National Health and Morbidity Survey)



Nur Shahida AA ,Ruhaya S, Rashidah A, Mohd Hasnan A, Syafinaz MS, Nor Azian MZ, Azli B, Fatimah O, Mohd Azahadi O, Balkish MN

Institute for Public Health

Introduction

- Overweight and obesity has become a major public health problem.
- In both men and women, obesity is a major risk factor for premature death or serious chronic conditions that impair the overall quality of human life.
- BMI was calculated by dividing weight in kilograms by height in meters squared

(WHO, 1998).

BMI classification: Normal (18.5-24.9)

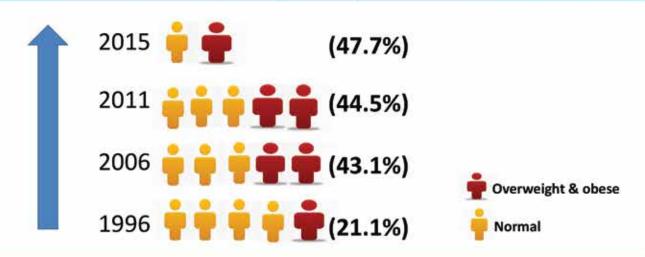
Overweight (25.0-29.9)

Obese (≥30)

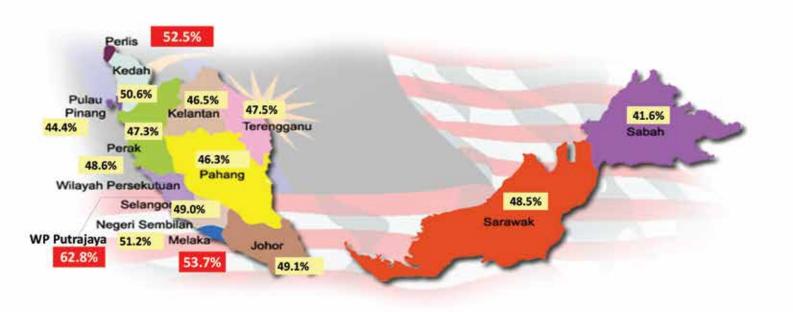


5.6 million are overweight & 3.3 million are obese

Overall Trend Among Malaysian Adults



NHMS 2015: Prevalence Overweight and Obesity by State

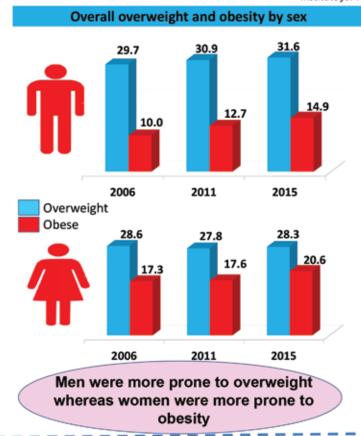


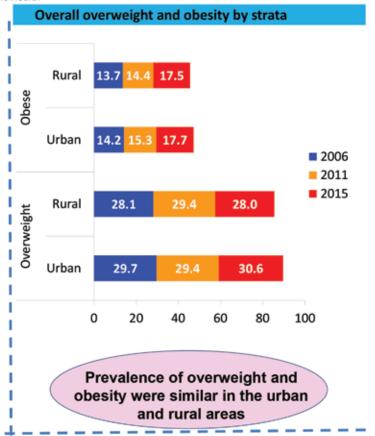


Alarming Trend Of Overweight And Obesity Among Malaysian Adults (National Health And Morbidity Survey)

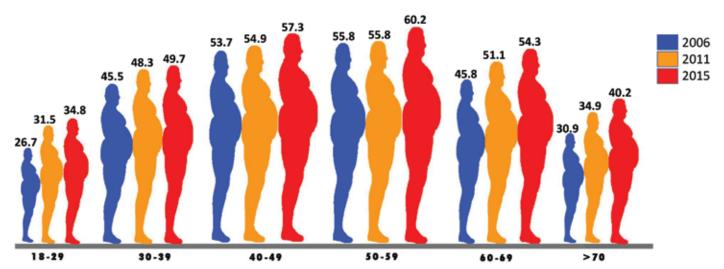


Ruhaya S, Rashidah A, Nur Shahida AA, Mohd Hasnan A, Syafinaz MS, Nor Azian MZ, Azli B, Fatimah O, Mohd Azahadi O, Balkish MN Institute for Public Health





Overall overweight and obesity by age categories



Conclusion

- The results indicated that overweight and obesity problems were overspread in both urban and rural areas.
- The prevalence of overweight among men slightly increased by year. The prevalence of overweight among women had decreased slightly from 2006 to 2011 but slightly increased from 2011 to 2015. In terms of obesity, prevalence among women increased steeply from from 2011 to 2015 as compared to men.
 - The prevalence of overweight and obesity were found to increase with age until ages 50-59 but the prevalence decreased after ages of 60.

Recommendation:

Collaborative effort among all sectors is needed in prevention to control of overweight and obesity in Malaysia.

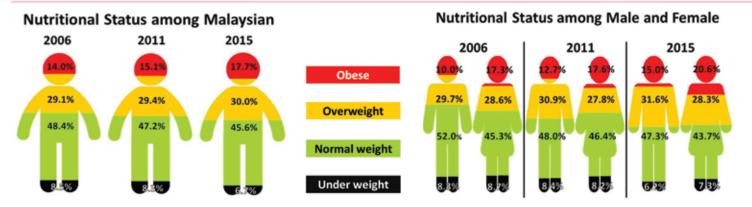


TREND OF NURITIONAL STATUS AMONG MALAYSIAN ADULTS FROM YEAR 2006 TO 2015



<u>Cheong SM¹</u>, Rashidah A¹, Ruhaya S¹, Rusidah S², Nur Shahida AA¹, Mohd Hasnan A¹, Syafinaz MS¹, Azli BS¹, Fatimah O¹, Nor Azian MZ¹

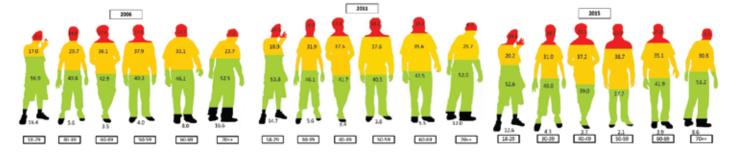
¹Institute for Public Health, Ministry of Health Malaysia ²Nutrition Division, Ministry of Health Malaysia



Nutritional Status between Urban and Rural Areas



Nutritional Status among Different Age Groups



Conclusion

In the past 10 years, the overall prevalence of underweight has decreased, especially among younger adults and elderly. While obesity rate has increased mainly among females and middle-age adults.

Recommendations

More aggressive multipronged strategies to address both underweight and obese problems are warranted involving all relevant key stakeholders.

References

- 1. The Third National Health and Morbidity Survey 2006. (2006). Institute For Public Health, Ministry of Malaysia.
- 2. National Health and Morbidity Survey 2011. (2011). Institute For Public Health, Ministry of Malaysia.
- 3. National Health and Morbidity Survey 2015. (2015). Institute For Public Health, Ministry of Malaysia.



NUTRITIONAL STATUS OF MALAYSIAN CHILDREN < 18 YEARS OLD

NATIONAL HEALTH MORBIDITY AND SURVEY



Fatimah O, Rashidah A, Ruhaya S, Mohd Hasnan A, Azli B, Nor Shahida AA, Syafinaz MS, Norazian MZ,

Mohd Azahadi O

Center For Nutrition Epidemiology Research, Institute For Public Health



"Good nutritional status contributes to a healthy development of the children"



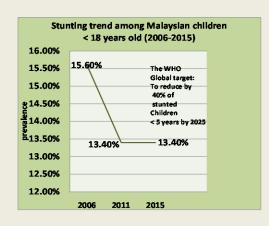
Overweight: > +2SD z score of BMI for age from the growth chart

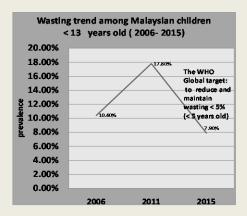
Stunting: ≤ -2SD z score of height for age from the growth chart

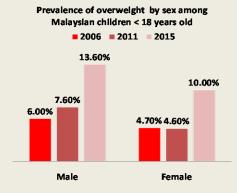
Wasting: ≤ -2SD z score of weight for height from the

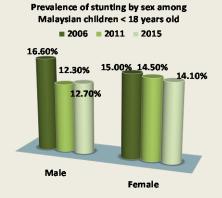
growth chart

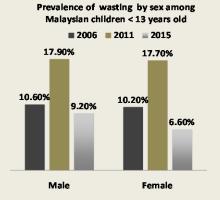


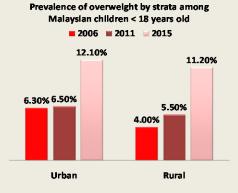


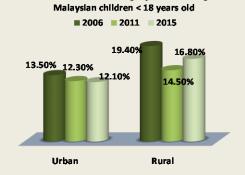




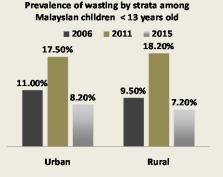








Prevalence of stunting by strata among



Recommendations



Enact policies to enhance food systems to support healthy dietary practice, and implement local policies to promote physical activity.



Scale up the prevention program, improve maternal nutrition, and support the breast feeding to reduce stunting rate.



Scale up coverage of services for the identification and treatment of wasting.





FRUIT CONSUMPTION: DO MALAYSIANS GET ENOUGH?



National Health and Morbidity Survey

Syafinaz Mohd Sallehuddin, Rashidah Ambak, Ruhaya Salleh, Mohamad Hasnan Ahmad, Nur Shahida Abdul Aziz, Nor Azian Mohd Zaki, Fatimah Othman, Azli Baharudin

Institute for Public Health, Ministry of Health

Most fruits are low in:

CALORIES

SODIUM

FAT

Provide essential nutrients:

POTASSIUM SIMPLE SUGARS

FIBRE

VITAMINS AND BIO-ACTIVE SUBSTANCES

Inadequate intake may lead to:

* Worldwide1

19 % OF GASTROINTESTINAL CANCERS

31% OF ISCHAEMIC HEART DISEASE (IHD)

11% STROKE

- Fruit intake is adequate if consumed 2 OR MORE SERVINGS PER DAY (Malaysian Dietary Guideline, 2010).
- SERVING size refers to an average amount that individuals should choose to eat each day.

WHO CONSUMED ADEQUATE FRUIT IN 2015?



ONLY 1 in 10 **ADULTS (9.9%)**



ONLY 1 in 11 MEN (8.5%)



ONLY 1 in 8 WOMEN (11.5%)



ONLY 1 in 10 Malaysians in the **URBAN** area (10.1%)



ONLY 1 in 10 Malaysians in the **RURAL** area (9.5%)

TRENDS OF FRUIT CONSUMPTION ADEQUACY BY YEAR (2011 TO 2015)

2011

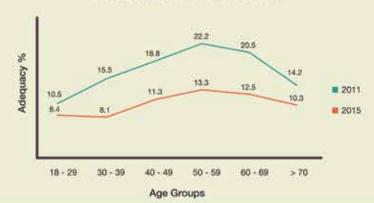
M 2015

9.9% 13.6% 8.5%

15.7% 11.5% 15.4% 12.7%

10.1% 9.5%

Fruit consumption adequacy (%) by age categories in 2011 and 2015



WHAT IS A SERVING OF FRUIT?



1 medium - Apple, Pear, Orange, Banana, Mango



14.6%

1 slice or 1 cup diced -Watermelon, Papaya, Pineapple, Melon



8 seeds - Rambutan, Duku, Grapes, Pulasan



3 medium seeds -Durian, Nangka

CONCLUSION:

- 1. The Malaysian adults are not consuming adequate fruits as recommended by the World Health Organization
- 2. The adequacy of fruit consumption has reduced from 14.6% in 2011 to 9.9% in 2015.

RECOMMENDATION:

The Ministry of Health and other policy makers should focus more on the efforts to increase the awareness and promoting the benefits of adequate intake of fruits among Malaysians.

- The World Health Report. Reducing risks, promoting helath. Geneva, World Health Organization, 2002.

 Ministry of Health, Malaysia (2010), Malaysian Dietary Guidelines (2nd ed.), Malaysia: National Coordinating Committee on Food and Nutrition.



VEGETABLE CONSUMPTION: DO MALAYSIAN ADULTS GET ENOUGH?



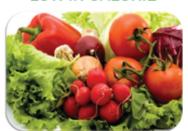
National Health and Morbidity Survey

Rashidah A, Ruhaya S, Mohd Hasnan A, Nur Shahida AA, Syafinaz MS, Nor Azian MZ,
Azli B, Fatimah O, Mohd Azahadi O
Institute for Public Health

EXCELLENT SOURCE

- ✓ Minerals: Calcium, Magnesium, Potassium, Iron
- √Vitamins: Folate, Riboflavin, Niacin, Vitamin A, Vitamin B6
- ✓Antioxidants: Vitamin C, Lutein, Zeanthin, Anthocyanins
- ✓Phytochemicals
- √Fibre

LOW IN CALORIE



ADEQUATE INTAKE REDUCES RISK

- 🦶 20% of esophageal cancer
- 12% of lung cancer
- ➡ 31% of ischemic heart disease

ADEQUATE IF TAKEN ≥ 3 SERVINGS per day

~ SERVING refers to an average amount that individuals should choose to eat each day²

WHO CONSUMED ADEQUATE VEGETABLES IN 2015?

1



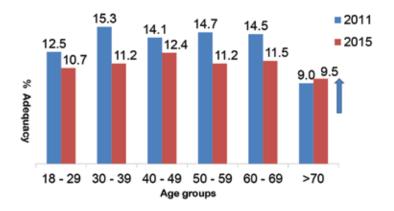






ONLY 1 in 9 ONLY 1 in 7 ONLY 1 in 8 ONLY 1 in 10 ONLY 1 in 6 (11.2%) (13.0%) (12.0%) urban adults rural adults (10.1%) (14.5%)

VEGETABLE ADEQUACY BY AGE IN 2011 AND 2015



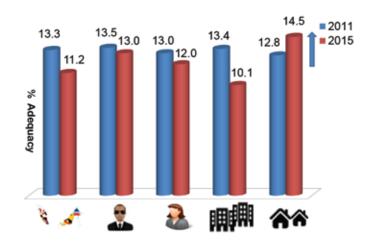
CONCLUSION:

- Most of the Malaysian adults are not consuming adequate vegetables as recommended by the Malaysian Dietary Guideline.
- The adequacy of vegetable consumption among Malaysians has reduced from 13.3% (2011) to 11.2% (2015).

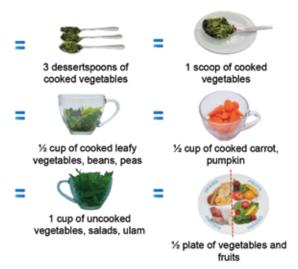
RECOMMENDATION:

The Ministry of Health Malaysia with other stakeholders should strengthen their efforts in creating awareness on the importance of adequate intake of vegetables and ensure that vegetables are accessible and affordable to the people.

VEGETABLE ADEQUACY IN 2011 AND 2015

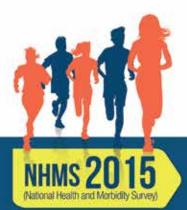


WHAT IS 1 SERVE OF VEGETABLES?2



REFERENCES

- Lock, K., Pomerlau, J., Causer, L., Altmann, D.R., & McKee, M. (2005). The global burden of disease attributable to low consumption of fruit and vegetables: implications for the global strategy on diet. Bulletin of the World Health Organization, 83(2), 100-108
- Ministry of Health, Malaysia (2010). Malaysian Dietary Guidelines (2nd ed.). Malaysia: National Coordinating Committee on Food and Nutrition.



How active are we MALAYSIANS?





Chandrika Jeevananthan, Lim Kuang Kuay, Chan Ying Ying, Mohd Azahadi Bin Omar, Khoo Yi Yi Institute for Public Health,

30.8 MILLION

33.1% LACK PHYSICAL ACTIVITY

[10.2 MILLION]

AT LEAST 1 IN 3 MALAYSIANS ARE DEEMED NOT ACTIVE

PHYSICAL ACTIVITY IS CRITICAL FOR POPULATION HEALTH

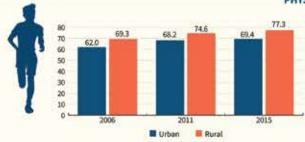
- Promotes healthy growth and development in child and youth
- Supports healthy aging and prevents osteoporosis
- ► Lowers the risk of several diseases (heart disease, diabetes, colon & breast cancer)
- Prolongs life, enhances productivity and contributes to economic prosperity

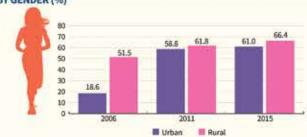


WHO Recommends

PHYSICAL ACTIVITY OF MALAYSIANS OVER THE LAST DECADE

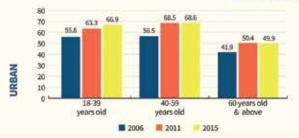
PHYSICAL ACTIVITY BY GENDER (%)

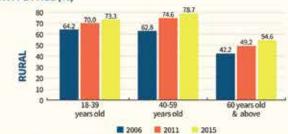




Both male and female in rural areas shows a higher prevalence of increased physical activity in comparison to those living in urban regions, however, there is a increase in the prevalence of physical activity over the years in both urban and rural areas. Males are more active than females in both areas.

PREVALENCE OF PHYSICAL ACTIVITY BY AGE (%)





The prevalence of physical activity is highest among the age group of 40-59 year olds living in both urban and rural areas and decreased after 60 years of age and above

THE 6 THRUST OF ACTIVE LIVING FOR MALAYSIAN

1. To strengthen public policy that support active living

- Advocacy of the NASPAL (National Strategic Plan For Active Living) to all relevant Ministries, agencies and NGOs
- Development of Malaysian Physical Activity Guidelines

2. To expand appropriate environments

- Providing physical activity conductive environments in various setting(Academic institution, workplace, community & healthcare facilities)
- · Special on ground activities involving local community
- Safe & quality supportive facilities and amenities
- · Provision of sufficient equipments for physical activity

3. To increase public motivation & understanding through public education

- Increasing provision of accessible public information and education on physical activity and non-communicable disease through conventional and contemporary media platforms especially social media
- Fortifying related employees through capacity building on social media management.
- Development of database on places that support physical activities (public parks, cycling lane, sport centres, gymnasiums, fitness studios and playground)

4. To intensify behavior change programs

- Improving structured physical activities initiatives in the community
- . Groom qualified fitness instructors in the community
- Focused intervention program for specific group using contemporary approach

5. To enhance partnership & collaboration

- Formation on inter-agency working groups at all relevant levels
- Development of NGOs alliance related to physical activity to complement promotion of active living
- Initiation Corporate Social responsibilities programs with corporate sectors

6. To strengthen evaluation, monitoring & research

- Promote and support research in areas related to physical activity (programs, impact, advocacy, promotion, behavior, etc.)
- Review overseas and local literature of health promotion interventions on physical activity to identify elements of sustainability.

Source: Bahagian Pendidikan Kesihatan, Cawangan Kesejahteraan Populasi, Sektor Cara Hidup Sihat



Make physical activity a part of daily life during all stages of life





Hamizatul Akmal AH.,
Rozanim K.², Fadhli MY. Aiman AG.

Institute for Public Health,
Ministry of Health Malaysia

Health Department of Federal Territory Kuala Lumpur and Putrajaya, Ministry of Health Malaysia

Globally, harmful use of alcohol causes approximately 3.3 MILLION deaths every year and 5.1% of the global burden diseases attributable to alcohol use.

In 2015

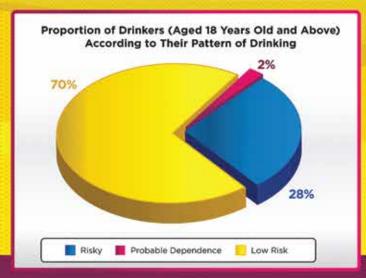
O O O O O

About 1 in 10 people

Individuals aged 13 years and above currently consumed alcoholic beverages such as beer, stout, wine, whisky, samsu, rice wine, toddy and others.

15.1 % (1.7 MILLION)
NON-MALAY
CONSUMED ALCOHOL

Prevalence of Lifetime Abstainer, Ever Drinker, Current Drinker and Ex-drinker, ≥ 13 years (2006, 2011, 2015) 100 80 84.3 81.7 86.2 60 40 29.1 20 17.8 18.5 7.7 NHMS 2006 NHMS 2011 NHMS 2015 NHMS 2015



WHAT IS?

ALCOHOL DRINK

Any drink containing ethanol irrespective of concentration and inclusive of those consumed for medical purposes such as alcoholic tonic

LIFETIME ABSTAINERS

Respondent who never consume alcohol in their lifetime

EVER DRINKER

Respondent who had history of consuming alcohol

CURRENT DRINKER

Respondent who still consumed alcohol for the past twelve (12) months prior to the survey

EX-DRINKER

Respondent who did not drink alcohol for the past twelve (12) months



NATIONAL HEALTH AND MORBIDITY SURVEY 2015
REVEALED, AMONG CURRENT DRINKER:

3 IN 10 ADOLESCENT POPULATION

1 IN 2 DRINK ALCOHOL WITH INTENTION OF BECOMING INTOXICATED (BINGE DRINKING)

RECOMMENDATION

- ▶ Promote screening for all drinkers to identify their risk to alcohol-related harm
- ▶ Strengthen brief intervention in primary care setting to minimize harmful effect of alcohol
- ► Community mobilization to prevent teen aged drinking
- Strengthen enforcement on alcoholic beverages standard and prohibition of sales to under aged







Anaemia in Malaysia: Do We Need to Worry?

National Health & Morbidity Survey 2015

S. Maria Awaluddin, Noor Ani Ahmad, Balkish Mahadir Naidu, Muslimah Yusof, Rahama Samad, Noraida Mohd Kasim, Mohamad Aznuddin Abd. Razak, Chan Ying Ying, Norhafizah Sahril, Rajini Sooryanarayana, Mohd Kamal Ariff Abdul Ghani, Tahir Aris.

Institute for Public Health, Ministry of Health.

Anaemia can cause....

- Fatigue and weakness
- Impairs Women & children's health and well-being
- Impairs quality of life for elderly

4.9 millions

1 in 4 Malaysian adults

2.6 millions

women of reproductive age

35 % of elderly population



....were screened to be anaemic.



2.5x more likely to be anaemic than men in general population.

4X more likely to be anaemic than men in young adults population.



- 1 in 3 women of reproductive age
- 1 in 3 elderly women

.....were screened to be anaemic.

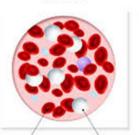
What is anaemia?

Anaemia is a condition where there is **not enough of the healthy red blood cells**.

Why it happens?

- Inadequate dietary iron intake or absorption
- Blood loss e.g.: menses
- It is a treatable condition.
- Anaemia is detected by doing a blood test.
- The cut-off point to detect anaemia is based on the WHO guidelines.
- Haemoglobin level for anaemia in adult:
 - < 12.0 g/dl for non-pregnant woman
 - < 13.0 g/dl for man

Normal



White blood cell Red blood cell

Anaemia

Red blood cell White blood cell

We recommend to:

- strengthen the health promotion program.
 - National food campaign e.g "Fight anaemia with the right food
- enhance the anaemia intervention program.
 - Iron & folic acid supplementation to the targeted group
- implement the national fortification of wheat flour with folic acid and iron.

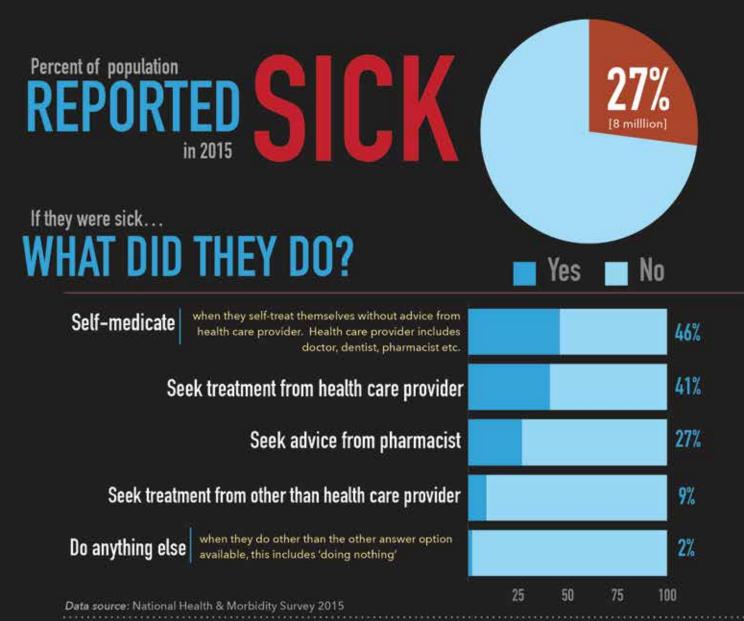








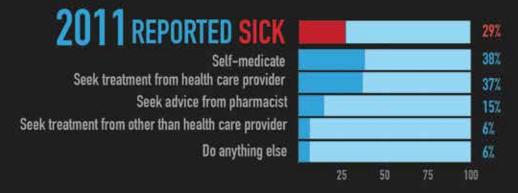
HOW DO THE POPULATION SEEK CARE WHEN THEY ARE SICK?



Note: Example of "health problems"-Fever, sore throat, difficulty in swallowing, running nose, cough, indigestion, diarrhoea, skin problem, backache, allergies etc



For more information, please refer to the report National Health & Morbidity Survey, Health Care

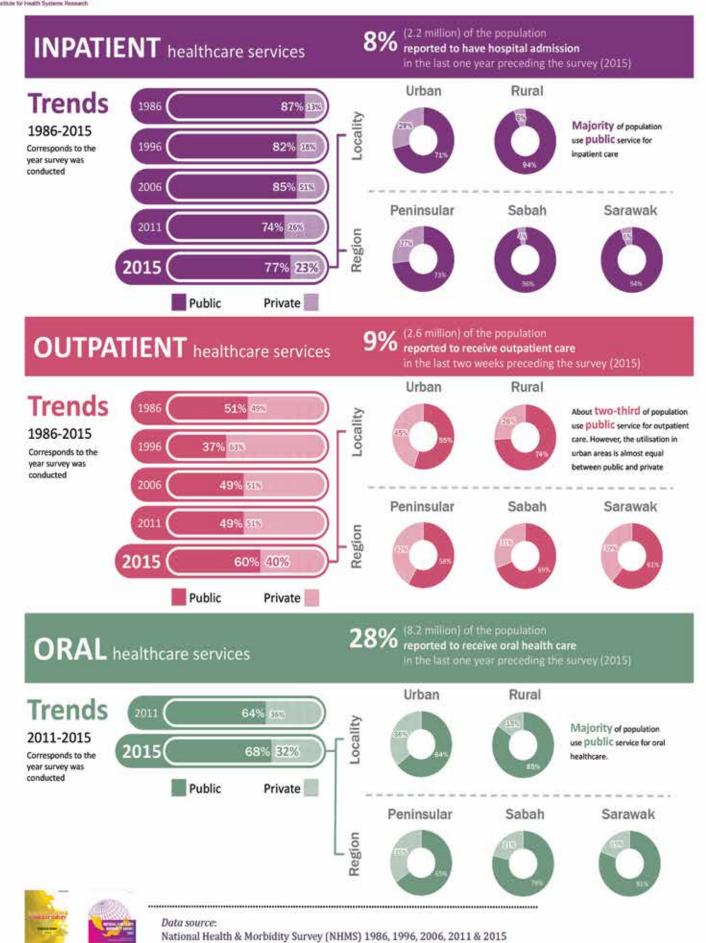


Data source: National Health & Morbidity Survey 201



USE OF **HEALTHCARE SERVICES** IN MALAYSIA

PUBLIC or PRIVATE health facilities



HOW DO THE POPULATION **PERCEIVE** MALAYSIA'S HEALTHCARE DELIVERY SYSTEMS?

What is GOOD about...public and private healthcare facilities?

Public

Treatment charges





Staffs' courtesy

Private

Services outcome



Services outcome

Staffs' courtesy



Comfo

Comfort of facilities

Clarity of explanation



Cla

Clarity of explanation

Availability of equipment





Availability of specialists

What still NEEDS IMPROVEMENT...public and private healthcare facilities?

Public

Waiting time (queuing)





Treatment charges

Allowed to choose doctor





Convenience of location

Time spent with doctor





Waiting time (queuing)

Choice of healthcare provider: What do people want?

More than half of the adult population (18 years and above) preferred public facilities when they had minor health problem, major health problem, minor surgery, major surgery, oral treatment and for birth/delivery.



51%

preferred public facilities for minor health problem.



68%

preferred public facilities for minor surgery.



61%

preferred public facilities for oral treatment.



76%

preferred public facilities for major health problem.



78%

preferred public facilities for major surgery.



78%

preferred public facilities for birth/delivery.

For more information, please refer to the report: National Health & Morbidity Survey (NHMS) 2015, Health Care Demand (Volume 3)



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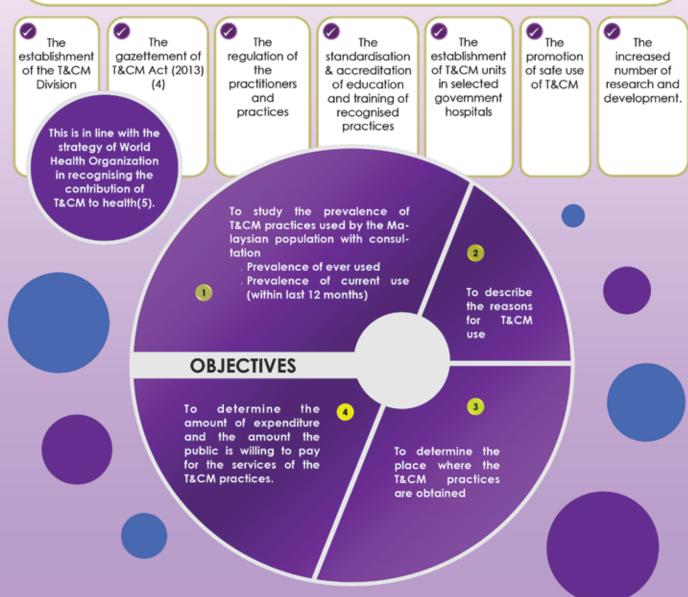
NATIONAL HEALTH MORBIDITY SURVEY 2015

Traditional and Complementary Medicine

Siti Khairul Bariyyah Akhiar¹, Aidatul Azura Abdul Rani², Ida Farah Ahmad¹, Ahmad Faudzi Yusoff¹, Ariyani Amin²,
Balkish Mahadir Naidu⁴, Wan Shakira Rodzlan Hasani⁴, Shamsaini Shamsuddin², Noridah Mohd Salleh³,
Noor Khairiyah Shazwani Sholehudin², Hanisah Akbar Tajudddin¹, Cheong Yin Ying², Ami Fazlin Syed Mohamed¹,
¹Institute for Medical Research, ²Tradittional and Complementary Medicine Division, ³Primary Health Development Division,
⁴Institute for Public Health

BACKGROUND

- The main healthcare system in Malaysia is the conventional medical system but in reflection to its rich ethnic diversity, the traditional medicine of each group is very much ingrained in the society.
- In 2004, a study on the use of Traditional and Complementary Medicine (T&CM) by the Malaysian population showed a prevalence of 69.4% of the Malaysian population had ever used T&CM in their lifetime, and 55.6% had used T&CM within the last 12 months period.(1)
- The prevalence of use within the last 12 months period was comparable to the T&CM use in other countries, such as, Australia 68.9% (2) and Japan 76.0%.(3)
- Among the initiatives and measures that were taken to ensure safety and quality of T&CM practices:



NATIONAL HEALTH MORBIDITY SURVEY 2015 Traditional and Complementary Medicine

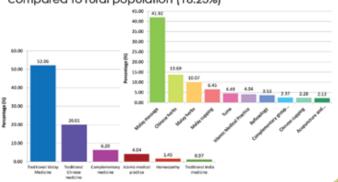
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KEY FINDINGS

- Prevalence of T&CM practices used by the Malaysia population
- 29.25% of the population had used T&CM practices with consultation in their lifetime
- 21.51% of the population used T&CM within the last 12 months with consultation.
 - Females (23.89%) showed significantly higher T&CM use compared to males (19.33%)
 - . Urban population (22.64%) had higher percentage of use compared to rural population (18.23%)



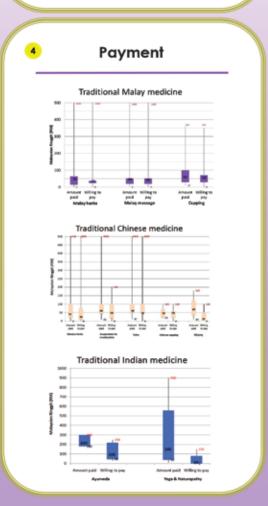
Places where the T&CM were obtained

70 14 25 38.25 36.80 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.93 37.00 37.00 37.93 37.00 37.00 37.93 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37



KEY FINDINGS

Use within last
12 months
with
consultation



NATIONAL HEALTH MORBIDITY SURVEY 2015 Traditional and Complementary Medicine

Siti Khairul Bariyyah Akhiar¹, Aidatul Azura Abdul Rani², Ida Farah Ahmad¹, Ahmad Faudzi Yusoff¹, Ariyani Amin², Balkish Mahadir Naidu⁴, Wan Shakira Rodzlan Hasani⁴, Shamsaini Shamsuddin², Noridah Mohd Salleh³, Noor Khairiyah Shazwani Sholehudin², Hanisah Akbar Tajudddin¹, Cheong Yin Ying², Ami Fazlin Syed Mohamed¹, ¹Institute for Medical Research, ²Tradittional and Complementary Medicine Division, ³Primary Health Development Division, ⁴Institute for Public Health

There is a need to continue providing T&CM practices to offer options for patients and for healthy individuals especially in maintaining wellness and complementing mainstream medical system.

1) T&CM continues to be an important presence in this country as it has made some impact to the health of Malaysian population.



CONCLUSION

3 Services of T&CM are obtained at various facilities depending on the type of practices offered.

4 The cost of the services for the majority of the T&CM practices is within an affordable rate.



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- WHO, WHO traditional medicine strategy: 2014-2023. Geneva: 2013.

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co-investigators and support staff.

Institut Kesihatan Umum Kementerian Kesihatan Malaysia www.iku.moh.gov.my