

MANAGING CHRONIC DISEASES: MALAYSIAN EXPERIENCE





Presentation outline

- Magnitude of chronic diseases
- Practice gap in management of chronic diseases
- Managing chronic diseases during pandemic: Malaysian experience.
- What are the roles of healthcare professionals?
- The way forward: system-based approach (WISE model)





Definition of Chronic Disease

 Health problems that require ongoing management and long-term care over a period of years include:

- ✓ Non communicable disease Cardiovascular disease, HPT, DM, cancer, etc.
- ✓ Long term mental disorders- depression and schizophrenia
- ✓ Ongoing impairment- amputation, blindness, joint disorders, autoimmune disorders
- ✓ Certain communicable diseases , e.g. TB, HIV/AIDS





Magnitude of Chronic Diseases

- Noncommunicable diseases (NCDs) kill 41 million people each year, equivalent to 71% of all deaths globally.
- Each year, more than 15 million people die from a NCD between the ages of 30 and 69 years; 85% of these "premature" deaths occur in low- and middle-income countries.
- 77% of all NCD deaths are in low- and middle-income countries.
- Cardiovascular diseases account for most NCD deaths, or 17.9 million people annually, followed by cancers (9.3 million), respiratory diseases (4.1 million), and diabetes (1.5 million).

(World Health Organisation, 2021)



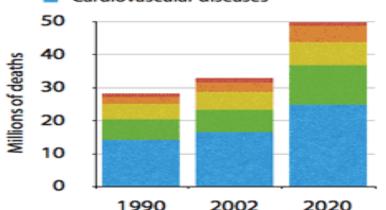


Magnitude of Chronic Diseases

Annual Global Mortality, by Category

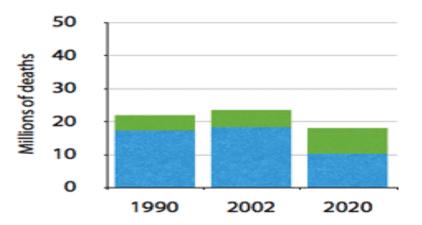
Chronic Illness

- Diabetes
- Respiratory diseases (asthma, COPD)
- Other "noncommunicable" diseases
- Cancer
- Cardiovascular diseases



Injuries & Communicable Disease

- Communicable diseases*
- Injuries
- Figure does not include chronic diseases, which are communicable.

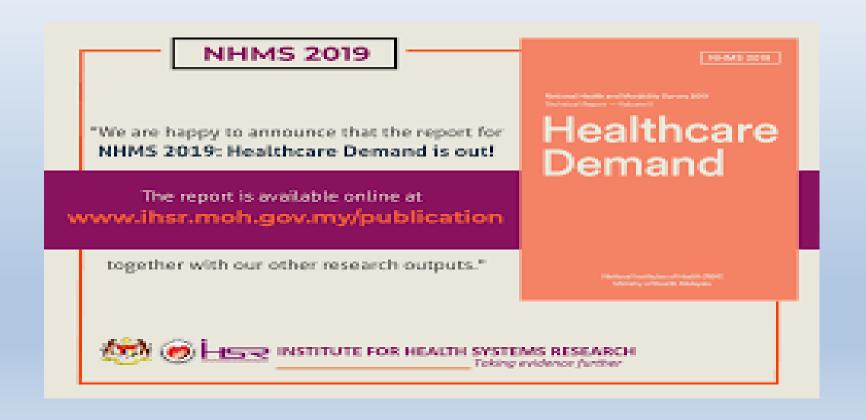


Source: Yach, D. et al. JAMA 2004;291:2616-2622.





CHRONIC DISEASE BURDEN IN MALAYSIA







DEPARTMENT OF STATISTICS MALAYSIA











Total

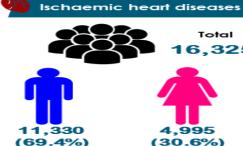
16,325

STATISTICS ON CAUSES OF DEATH, MALAYSIA, 2020

Pneumonia









The principal causes of death by age group



Transport







Ischaemic heart diseases

16.0% Ischaemic heart

diseases

accidents 0-14 years

accidents 15-40 years

Transport

41-59 years

60 years and over

The principal causes of death by ethnic groups



Bumiputera 14.5% Ischaemic heart diseases

Chinese 14.0%



Ischaemic heart diseases



The principal causes of maternal death



Postpartum 17.5% haemorrhage

Scan the QR code to see interesting info

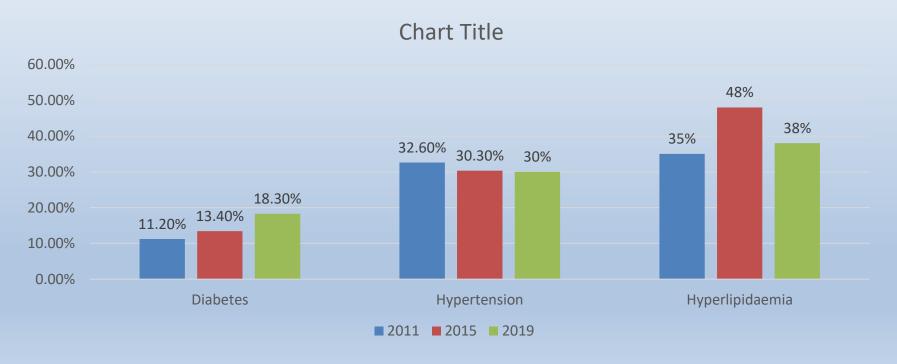


https://bppd-dosm.netlify.app/





Prevalence of chronic diseases in Malaysia: National Health and Morbidity Survey (NHMS)

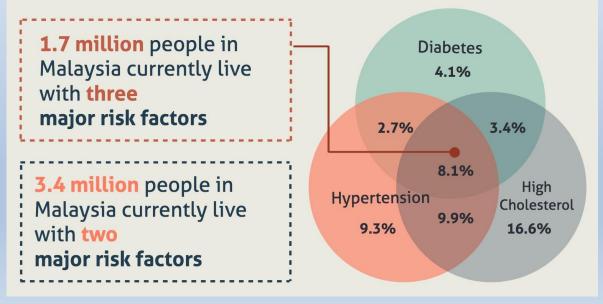






Burden of Hypertension, Diabetes & Hyperlipidemias in Malaysia

 National Health and Morbidity Survey, 2019







National Health and Morbidity Survey 2019

Key Findings



Overweight/obesity & abdominal obesity:

A tag team of health risk

adults in Malaysia were overweight

OVERWEIGHT = Body mass index (BMI) more than 25 kg/m3 OBESE = Body mass index (BMI)

more than 30 kg/m2 This was found to be highest among:

Females 54.7%



Indian ethnicity 63.9%



55-59 years old age group 60.9%

adults in Malaysia had abdominal

ABDOMINAL = OBESITY

Waist circumference (WC) ≥90cm for men ≥80cm for women

This was found to be highest among:

Females 64.8%



Indian ethnicity 68.3%



60-64 years old age group 71.5%

Major diseases associated with overweight/obesity and abdominal obesity



Diabetes



High Blood Pressure



Heart Disease

What can you do to reduce your risk?



Eat a healthy diet



Be physically active



Don't drink alcohol Stop smoking



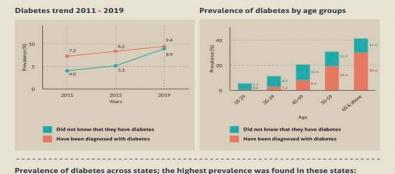
Manage stress well

NHMS 2019

Key Findings



National Health and Morbidity Survey 2019



Negeri Sembilan - 33.2% Prevalence (%) Perlis - 32.6% < 16.22 16.22 - 18.12 Pahang - 25.7% 18.12 - 20.02 20.02 - 25.06 > 25.06 "using a cut-off of 7.0 mmol/L for fasting blood sugar level

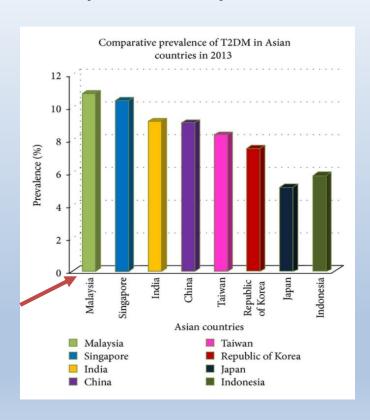
www.iku.gov.my/nhms

NHMS 2019





Comparative prevalence of diabetes in Asian countries



 Malaysia tops the world in diabetic nephropathy needing dialysis. In 2019, more than 35,000 patients require dialysis due to diabetes nephropathy

(Ismail et al., 2019)

 9% of diabetes patients have been diagnosed with retinopathy which would lead to blindness.

(Nur Fariza et al., 2020)

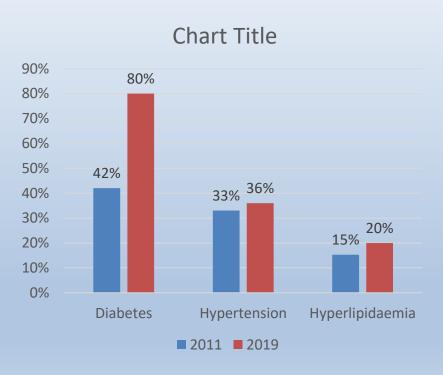
 More than 50% of patients with diabetes in Malaysia experiencing peripheral diabetic neuropathy and 7% have their limb amputated.

(Nazri et al., 2015)





Patients' awareness on risk of chronic disease complications



Why so ??

- Do doctors or other HCP talk to patients?
- Do patients given chance to ask doctors or other HCP?
- Do the patients being asked about their understanding?

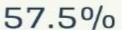




Health seeking behaviour among patients with chronic diseases (NHMS, 2019)

Among those who were sick,







sought care or advice from healthcare practitioners



16.4%

sought advice from family/friends



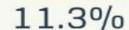
22.8%



self-medicated~

" took medicine without advice from healthcare parctitioners







sought advice from media

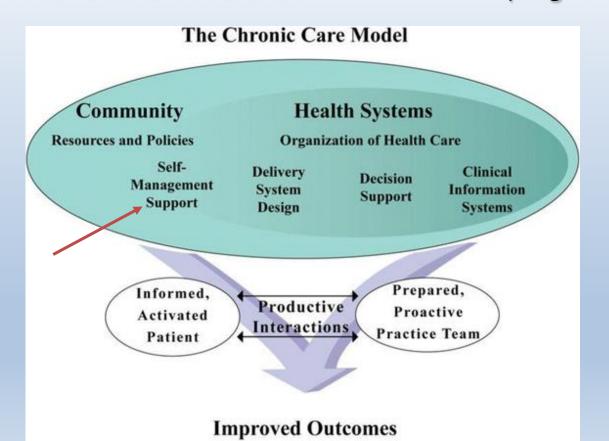
(e.g. Internet, TV, radio, print newspaper etc.)





The Chronic Care Model

(Wagner 2002)







Six elements of Chronic Care Model

#	Elements	Explanation	
1.	Health care organization	Goals, values & incentive to care providers must be aligned with payers & Ministry of Health	
2.	Community resources & policies	Patients & care providers need linkages with community resources like home care, patient education, exercise program, support groups.	
3.	Self management support	Enhance patient's self-management capacity; including acceptance of responsibility for self-care, the self-confidence and know-how (knowledge, skills & tools) required; build quality relationship & communication	
4.	Delivery system	Multi-disciplinary practice team with clear division of labour; planned management and visits	
5.	Decision support	Evidence based clinical practice; working to protocol, practice oversight and access to specialist expertise	
6.	Clinical information system	Computerized system to remind & prompt actions; to support shared care among multiple professionals, to feedback to providers, and to track progress	





What has been done?: Translating chronic care model in improving the healthcare system

- Community Based Multiple Risk Factors Intervention Strategy (CORFIS) – 2007
- 'Reviewed approach' on service delivery of primary health care system - 2007
- NCD Prevention 1Malaysia (NCDP-1M) 2010





Gap in the practice of chronic disease management within Malaysian Health Care System pertinent to self-management

- Patients have good knowledge and awareness about the risk and complications of some of chronic diseases i.e. diabetes. However, as the life of the patients highly bound by their culture, environment and complexities of disease, support provided by the health care system often does not meet the needs and expectations of the patients; which influences the engagement of patients with disease management plan and self-care.
- Management of chronic disease and the concept of empowerment and self-management has become of great concern within the healthcare system. However, support provision for chronic disease patients are limited as service delivery revolves around the traditional medical model which focusing on acute episodic care with a lack of evidence-based practice.
- Fragmented and uncoordinated healthcare system between primary, secondary and tertiary care in managing chronic diseases.
- Highly shortage of trained personnel. The management of chronic diseases at the primary care level highly rely on the physician. The nurses who should carried a vital role as care manager are lack of confidence and not empowered due to lack of training for higher degrees.





Adding to the complexity: chronic diseases issues during pandemic

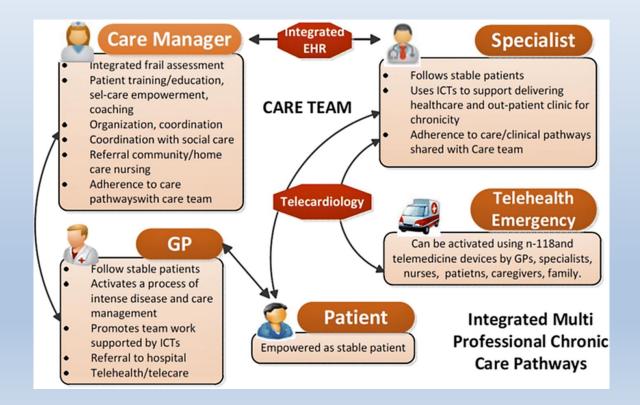
- Shifting of resources in healthcare system to the acute care and optimizing infection control.
- Reduced access to healthcare system, postponement of appointment.
- Vulnerable due to comorbidities and fear to get infected.
- Patients were expected to self-manage their chronic diseases with very minimal support from HCPs





Roles of healthcare professionals in chronic disease management

(Robusto et al., 2018)







Barriers in self-management support in Malaysia

Practice-based barriers COM-B model Capability Lack of skills Opportunity Competing tasks Limited, poor tailored resources Poor documentation Motivation Lack of awareness Not defined role Patients not receptive Healthcare professional **Behaviour**

Contextual barriers

Societal barriers

- Limited health literacy
- Multilingual society

Healthcare organisation context

- Time/manpower constraints
- Self-management not a priority

(Lee et al., 2021)





Improving self-management support: A way forward

- Reformation of healthcare management from the traditional paternalistic medical model to a patient-centered care approach
- Embracing patient centered care
 - > Patient participation and involvement,
 - The patient—HCP relationship
 - The context of the clinical setting in which the care is delivered.
- Emphasizes changes in HCPs' attitudes, improvements in the healthcare system, increased patient involvement in care, and community engagement in self-care support programs.
- A whole system perspectives that involves intervention at the patient, practitioner and service organisation level.





Self-management support approach (WISE Model)

(Kennedy et al., 2014)

	Patient	Professional	Practice Systems	Wider Health Organisation and Government
Strategy	Make better use of self- management support	Provide better self- management support	Improve access to self- management support	Improve uptake of self- management
Specific	Find best option for self-	Training in	Access to training for	Guidance and steer for
method	management support based on: Current ability and needs Personal goals and priorities A negotiated plan	Assessing patient's skills, beliefs and values Shared decision making Helping patients get access to appropriate self-management support	staff Access to computer support tools Regular update of local support options Ensure patients have easy access to support options Awareness of barriers to access in the practice	best practice Commission appropriate self- management support resources Ensure provision of range of support resources and target to patient needs Provide training access to improve staff skills
Tools	PRISMS Menu of options Management plan	Computer template PRISMS Explanatory model Menu of options Management plan	Computer template for support tools Menu of options Self-management support directory of local groups and organisations	Evidence from research and NICE guidance

Opportunities for improvement: Adoption of self-management support approach (WISE model)

Micro level

- Change the dimensions of self-care support provision from the medical model, which focuses on clinical outcomes, to a psychological and social sciences model, which incorporates the patient-centered care model.
- Improve the focus of chronic disease management by placing greater concern on patients' individual perspectives and involvement in initiating their behavior change in a way that is compatible with their needs and preferences.
- Increase the engagement and confidence of HCPs in providing effective self-care support, such as the communication approach, focus of care, and training needed to incorporate evidence into their practice.
- give clear guidelines to HCPs and simultaneously define the role of diabetes educators and other HCPs within the continuum of diabetes management more clearly.

Macro level

- Modifying the design of services provided by healthcare organizations (the respective primary care clinics in particular) to be inherent with the philosophy of selfmanagement,
- Redesigning the monitoring and follow-up systems
- Reviewing patients' access to healthcare facilities.

Opportunity of improvement: HCPs as care manager

- The role of HCPs as care managers that function as mediators and care facilitators across the healthcare system have been identified as essential with regards to the patient centered care model in chronic disease management
- Care managers, who work closely with patients to facilitate behavior modification, most strongly contribute to the success of the self-management support provision
- The role of the nurses in Malaysia should go beyond that of diabetes educators/hypertension counsellor, and extended to a more specialist role, such as care manager.
- A higher qualification, such as a master's or doctorate degree in chronic disease management, seems to be crucial for preparing the nurses for a more advanced independent role, which would simultaneously increase their confidence and motivation to provide a high-quality service in supporting patients with chronic disease.







What we did? (Kulliyyah of Nursing Flagship program: Towards Sejahtera community)

- Re-education and training
- Health coaching
- Motivation
- Monitoring
- Evaluation



THANK YOU!

