

Malaysia National Health Accounts (MNHA)
Planning Division, MOH
10 November 2022

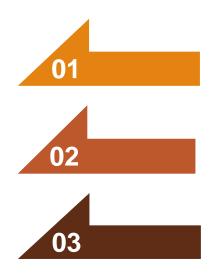
### **NOTE**

 Malaysia National Health Accounts (MNHA) will be publishing National Health Expenditure time-series data based on the duration of the 3 most recent RMK cycles.

 This year's report will consist of data covering the years for RMK-10, RMK-11 & RMK-12. The finalized data will be published soon as "Malaysia National Health Accounts: Health Expenditure Report 2011-2021".

For further information, please contact us at mnha@moh.gov.my

### OUTLINE



#### Introduction & Methodology

National Health Accounts | MNHA Framework | Methodology

#### **National Health Expenditure**

Total Expenditure on Health 2011-2021 (MNHA Framework)

OOP, PC & PHC Expenditure
Out-of-Pocket, Primary Care & Primary Healthcare Expenditure 2011-2021



#### NATIONAL HEALTH ACCOUNTS



Tool used to demonstrate how a country's health resources are **spent**, on what **services**, and **who pays** for them.



Captures the flow of funds in the Health System to monitor estimated health expenditure patterns.

#### MALAYSIA NATIONAL HEALTH ACCOUNTS (MNHA)

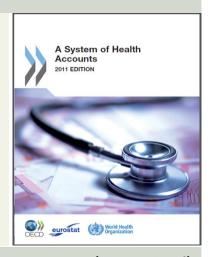




Established under Planning Division of MOH in September 2005.



Produces aggregate health expenditure macrodata using estimation methods based on national and international framework & guidelines.



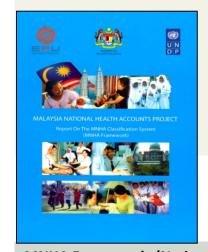
MNHA Framework (National)

SHA 2011 (International)

#### MALAYSIA NATIONAL HEALTH ACCOUNTS (MNHA)



25 years of NHA data produced using a standardized, globally recognized methodology.





expenditure estimations based on NHA principles as described in SHA reference documents

A System of Health Accounts 2011 EDITION

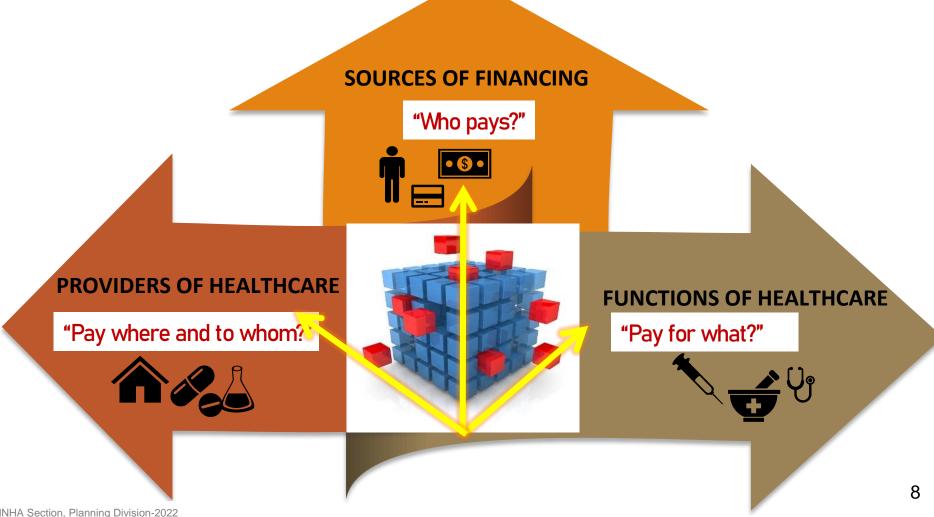
World Health Organization

MNHA Framework (National)

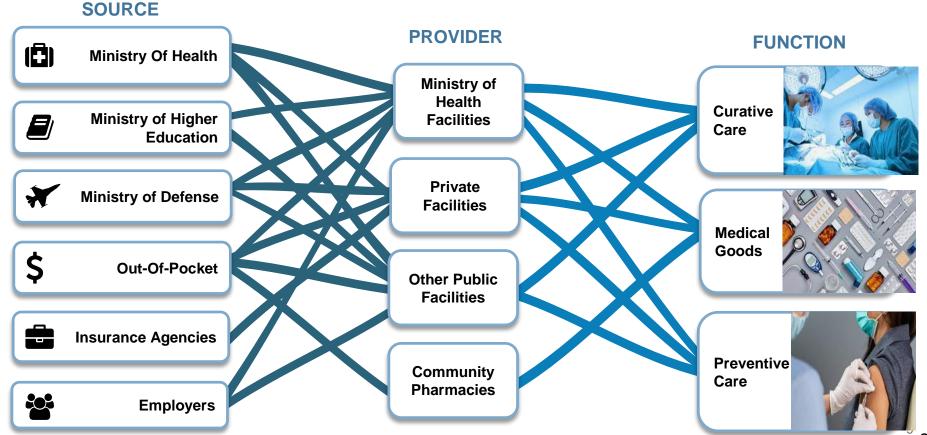
SHA 2011 (International)

#### INTRODUCTION





#### FLOW OF HEALTH FUNDS





#### **METHODOLOGY**



### DATA SOURCE NETWORKING

Identify list of potential data sources both in public & private sectors.

### DATA COLLECTION

Collection of both primary and secondary data from all identified agencies in both public & private sectors.

#### **DATA ANALYSIS**

Data estimations (whenever raw data is unavailable) using globally recognized, standardized estimation methods.

### DATA VERIFICATION AND VALIDATION

Verification & validation of data at multiple levels:

- OIC of Agency
- OIC of Compilation
- OIC of Final Database
- MNHA Technical Advisory Committee
- MNHA Steering Committee

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### **PUBLICATIONS**

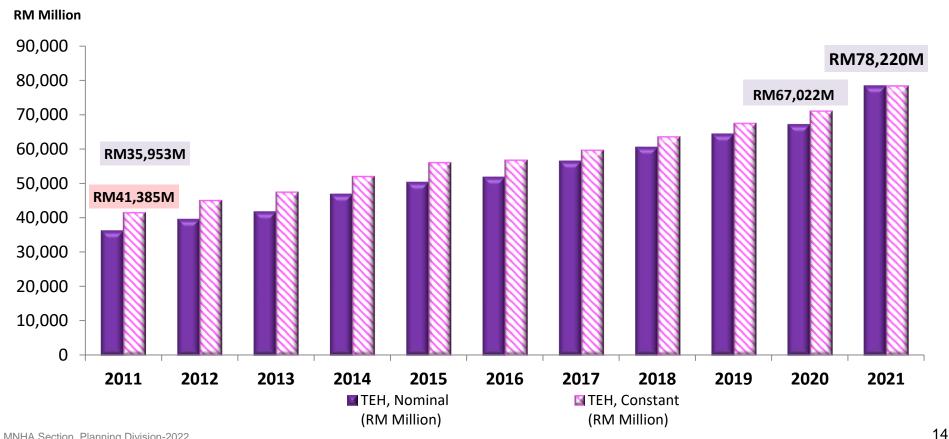






### Total Expenditure on Health [TEH], 2011-2021

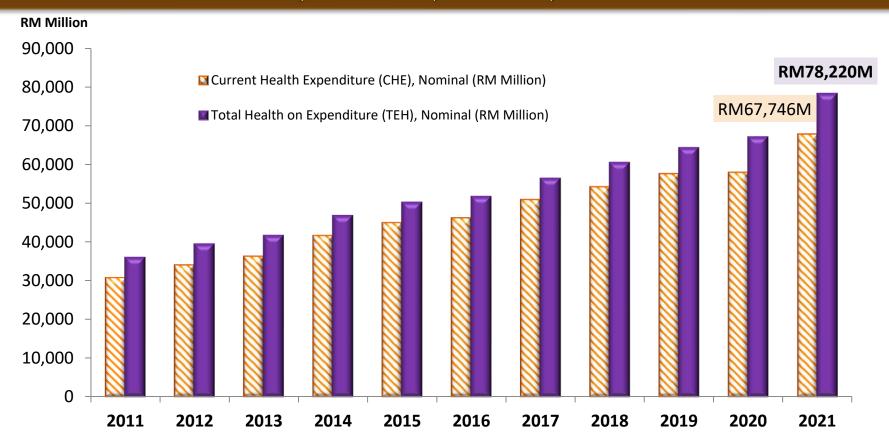
(RM Million, Nominal & Constant)



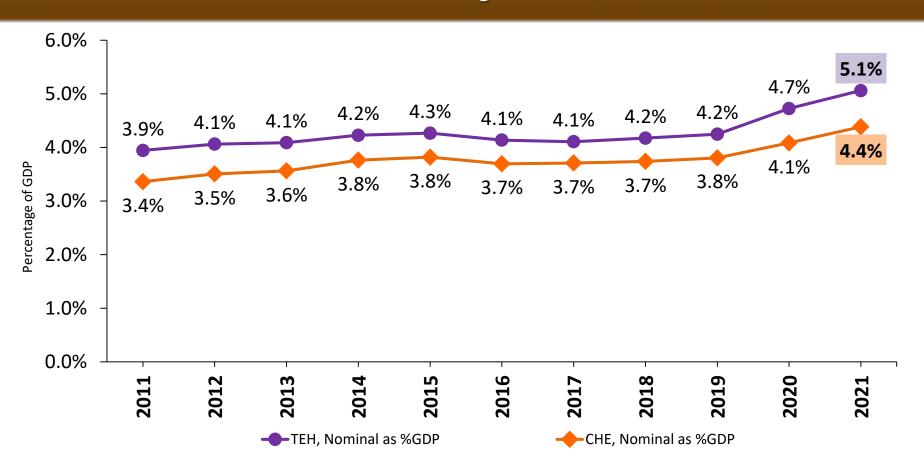
## Total Expenditure on Health [TEH], 2011–2021 (RM Million, Nominal & Constant)

Year	TEH, Nominal (RM Million)	TEH, Constant (RM Million)*
2011	35,953	41,385
2012	39,448	44,958
2013	41,647	47,382
2014	46,780	51,940
2015	50,208	55,951
2016	51,691	56,665
2017	56,364	59,537
2018	60,438	63,445
2019	64,252	67,381
2020	67,022	70,921
2021	78,220	78,220

### Total Expenditure on Health & Current Health Expenditure, 2011–2021 (RM Million, Nominal)



#### TEH & CHE as Percentage of GDP, 2011-2021

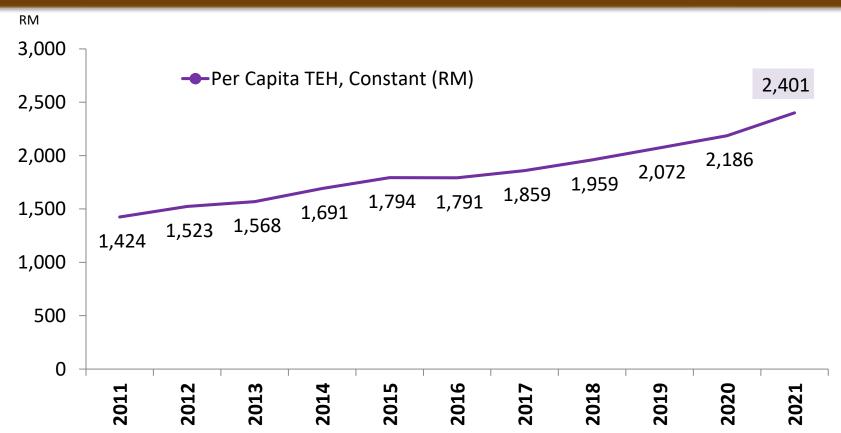


### Total Expenditure on Health & Current Health Expenditure, 2011–2021 (RM Million, Nominal)

Year	CHE, Nominal (RM Million)	TEH, Nominal (RM Million)	Total GDP, Nominal (RM Million)*	THE, Nominal as %GDP	CHE, Nominal as %GDP
2011	30,649	35,953	911,733	3.9%	3.4%
2012	34,062	39,448	971,252	4.1%	3.5%
2013	36,290	41,647	1,018,614	4.1%	3.6%
2014	41,636	46,780	1,106,443	4.2%	3.8%
2015	44,937	50,208	1,176,941	4.3%	3.8%
2016	46,167	51,691	1,249,698	4.1%	3.7%
2017	50,910	56,364	1,372,310	4.1%	3.7%
2018	54,148	60,438	1,447,760	4.2%	3.7%
2019	57,573	64,252	1,512,738	4.2%	3.8%
2020	57,910	67,022	1,418,000	4.7%	4.1%
2021	67,746	78,220	1,545,372	5.1%	4.4%

<sup>\*</sup> Source : Department of Statistics Malaysia

## Per Capita Expenditure on Health, 2011–2021 (RM, Constant)



## Per Capita Expenditure on Health, 2011–2021 (RM, Constant)

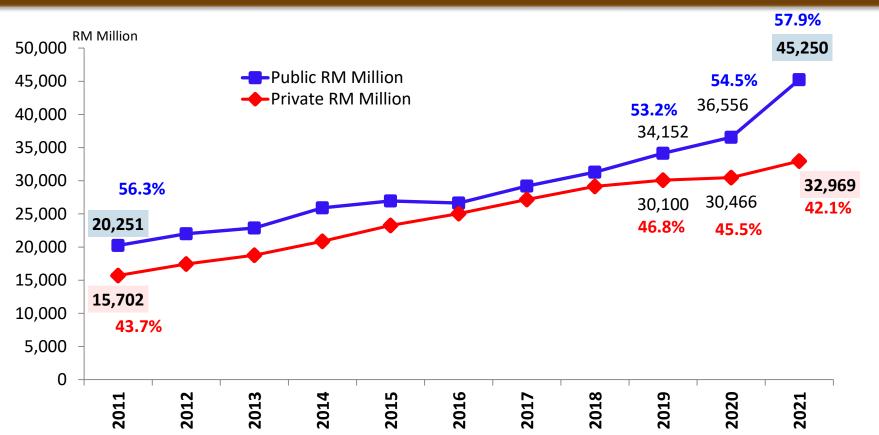
Year	Total Health Expenditure, Constant** (RM Million)	Total Population*	Per Capita TEH, Constant (RM)
2011	41,385	29,062,000	1,424
2012	44,958	29,510,000	1,523
2013	47,382	30,213,700	1,568
2014	51,940	30,708,500	1,691
2015	55,951	31,186,100	1,794
2016	56,665	31,633,500	1,791
2017	59,537	32,022,600	1,859
2018	63,445	32,382,300	1,959
2019	67,381	32,523,000	2,072
2020	70,921	32,447,400	2,186
2021	78,220	32,576,300	2,401

\* Source : Department of Statistics Malaysia

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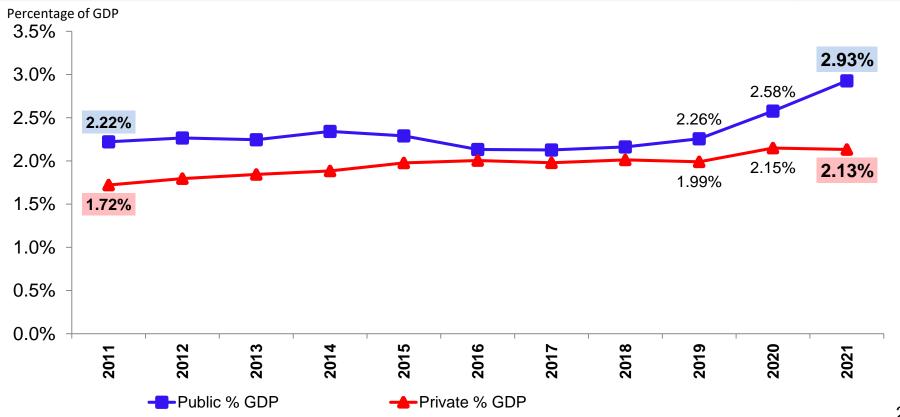
### Total Expenditure on Health by Public & Private Sources of Financing, 2011–2021 (RM Million)



### Total Expenditure on Health by Public & Private Sources of Financing, 2011–2021 (RM Million)

Year	PUBLIC SECTOR		PRIVATE SECTOR	
i eai	RM Million	Public % TEH	RM Million	Private % TEH
2011	20,251	56.3%	15,702	43.7%
2012	22,007	55.8%	17,442	44.2%
2013	22,868	54.9%	18,780	45.1%
2014	25,921	55.4%	20,859	44.6%
2015	26,949	53.7%	23,259	46.3%
2016	26,646	51.5%	25,045	48.5%
2017	29,196	51.8%	27,168	48.2%
2018	31,302	51.8%	29,136	48.2%
2019	34,152	53.2%	30,100	46.8%
2020	36,556	54.5%	30,466	45.5%
2021	45,250	57.9%	32,969	42.1%

### TEH by Public & Private Sources of Financing as Percentage of GDP, 2011–2021

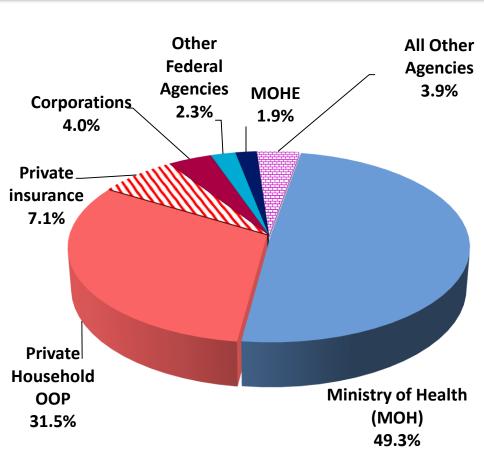


## TEH by Public & Private Sources of Financing as Percentage of GDP, 2011–2021

	Total GDP,	PUBLIC SECTOR		PRIVATE SECTOR	
Year	Nominal (RM Million)*	RM Million	Public % GDP	RM Million	Private % GDP
2011	911,733	20,251	2.22%	15,702	1.72%
2012	971,252	22,007	2.27%	17,442	1.80%
2013	1,018,614	22,868	2.24%	18,780	1.84%
2014	1,106,443	25,921	2.34%	20,859	1.89%
2015	1,176,941	26,949	2.29%	23,259	1.98%
2016	1,249,698	26,646	2.13%	25,045	2.00%
2017	1,372,310	29,196	2.13%	27,168	1.98%
2018	1,447,760	31,302	2.16%	29,136	2.01%
2019	1,512,738	34,152	2.26%	30,100	1.99%
2020	1,418,000	36,556	2.58%	30,466	2.15%
2021	1,545,372	45,250	2.93%	32,969	2.13%

<sup>\*</sup> Source : Department of Statistics Malaysia

### TEH by All Sources of Financing, 2021



		2020	2021	
S	Sources of Financing	RM Million	RM Million	
	Ministry of Health (MOH)	31,002	38,586	
	Private household out-of-pocket expenditure	22,617	24,643	
	Private insurance enterprises	4,971	5,535	
	Other federal agencies	2,530	3,131	
	Ministry of Higher Education (MOHE)	1,425	1,785	
	All Corporations	1,668	1,513	
	All other Agencies	2,808	3,027	2
	TOTAL	67,022	78,220	

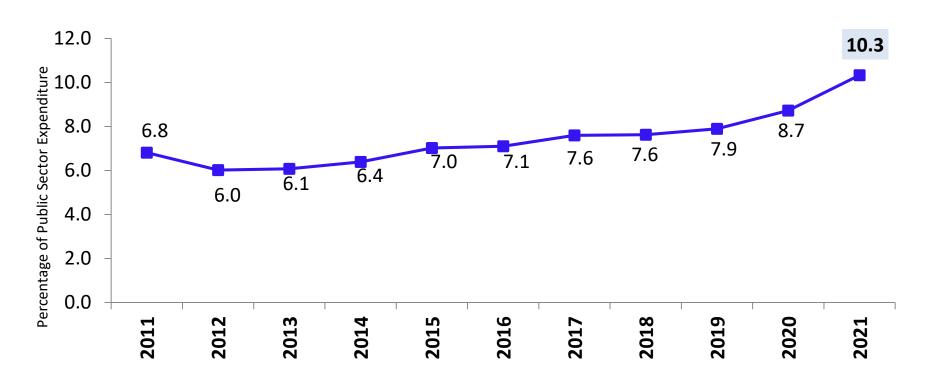
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# TEH 2011-2021

### **PUBLIC SOURCES OF FINANCING**



### Public Sector Health Expenditure (PSHE) as Percentage of Public Sector Expenditure (PSE), 2011–2021



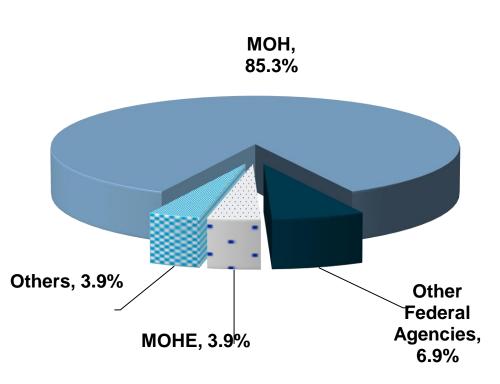
#### Public Sector Expenditure – Health vs General, 2011-2021

Year	PSHE** (RM, Million)	PSE * (RM, Million)	PSHE as % PSE
2011	20,251	297,382	6.8
2012	22,007	365,600	6.0
2013	22,868	376,374	6.1
2014	25,921	405,788	6.4
2015	26,949	383,727	7.0
2016	26,646	375,488	7.1
2017	29,196	384,576	7.6
2018	31,302	410,481	7.6
2019	34,152	432,697	7.9
2020	36,556	418,996	8.7
2021	45,250	437,964	10.3

Source: \*Treasury Malaysia website - Fiscal Outlook 2022 (PUBLIC FINANCE STATISTICS, Table 6.1: Consolidated Public Sector Finance, 2018-2022)

Note: \*\*PSHE is based on MNHA Framework

### Health Expenditure by Public Sources of Financing, 2021



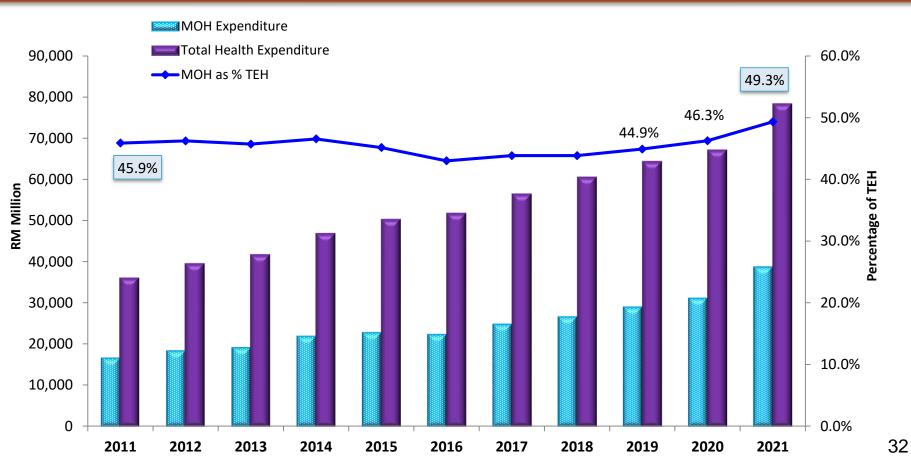
DUDUIC COURCES OF	2020	2021
PUBLIC SOURCES OF FINANCING	RM Million	RM Million
Ministry of Health (MOH)	31,002	38,586
Other federal agencies	2,530	3,131
Ministry of Higher Education (MOHE)	1,425	1,785
All Others	1,598	1,749
TOTAL	36,556	45,250

### **TEH 2011-2021**

## PUBLIC SOURCES OF FINANCING MINISTRY OF HEALTH



### MOH Share of TEH, 2011-2021

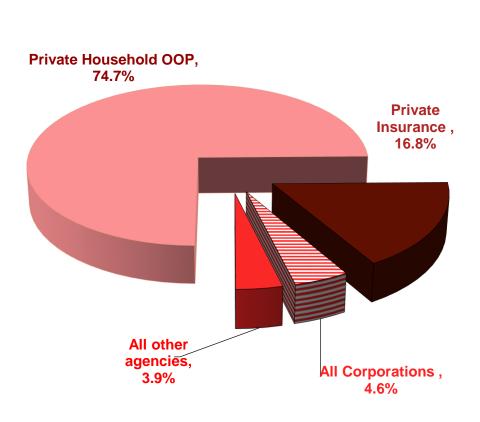


### MOH Share of TEH, 2011-2021

Year	MOH Expenditure (RM Million)	Total Health Expenditure (RM Million)	MOH as % THE
2011	16,496	35,953	45.9%
2012	18,239	39,448	46.2%
2013	19,038	41,647	45.7%
2014	21,782	46,780	46.6%
2015	22,671	50,208	45.2%
2016	22,230	51,691	43.0%
2017	24,716	56,364	43.9%
2018	26,503	60,438	43.9%
2019	28,859	64,252	44.9%
2020	31,002	67,022	46.3%
2021	38,586	78,220	49.3%



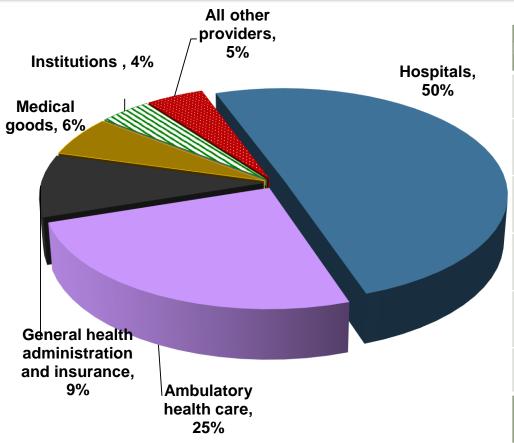
### Health Expenditure by Private Sources of Financing, 2021



	2020	2021
Sources of Financing	RM Million	RM Million
Private household out-of- pocket expenditure (OOP)	22,617	24,643
Private insurance enterprises	4,971	5,535
All corporations	1,668	1,513
All Other Agencies	1,209	1,278
TOTAL	30,466	32,969



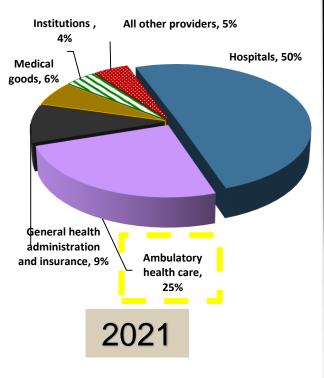
#### TEH to All Providers of Healthcare, 2021

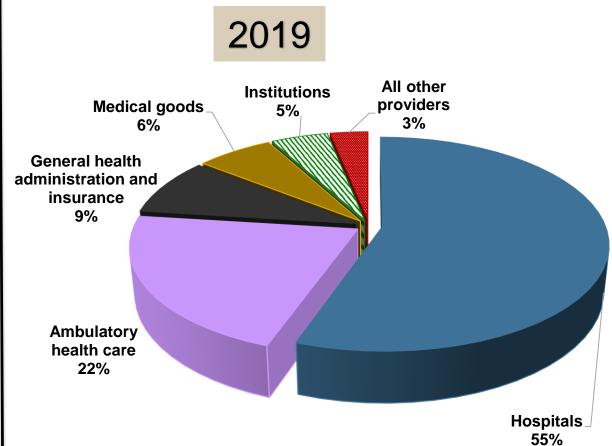


Providers of Health Care	2020	2021
Providers of Health Care	RM Million	RM Million
All hospitals	35,801	39,405
Providers of ambulatory health care	13,880	19,632
General health administration and insurance	6,273	7,399
Retail sale and other providers of medical goods	4,266	4,805
Institutions providing health-related services	3,488	3,319
All other providers	3,314	3,659
TOTAL	67,022	78,220

MNHA Section, Planning Division-2022

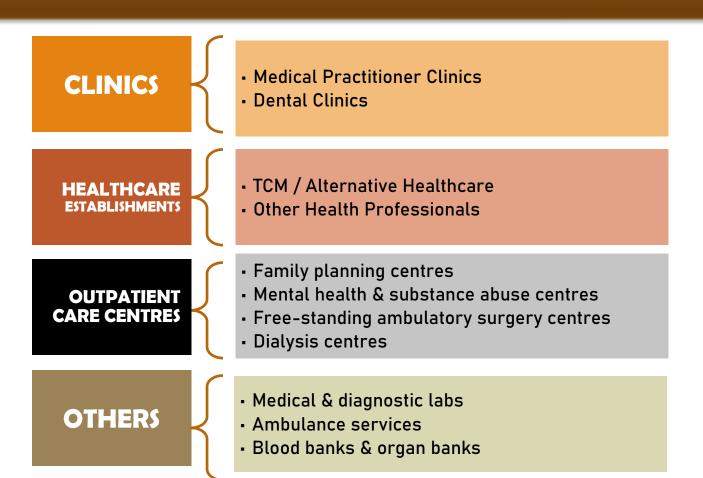
#### Comparison with Pre-pandemic Providers of Healthcare, 2019



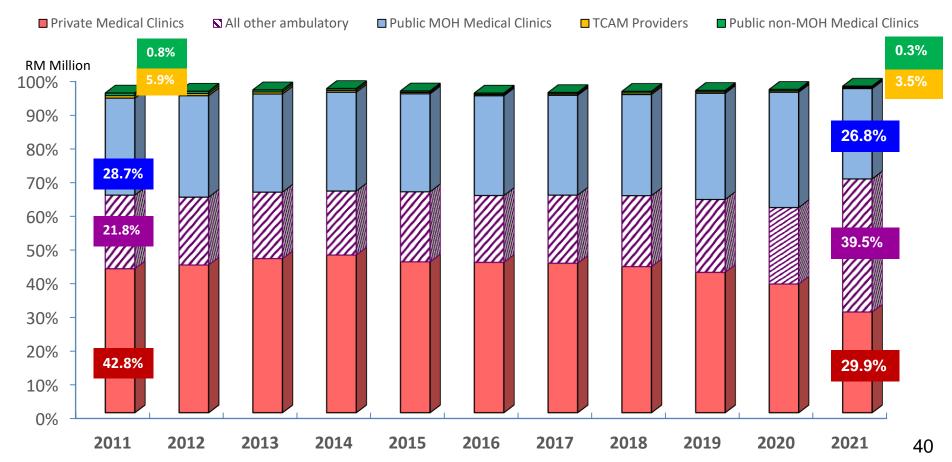


MNHA Section, Planning Division-2022

#### Providers of Ambulatory Health Care



#### Expenditure on Health to Ambulatory Healthcare Providers, 2011–2021

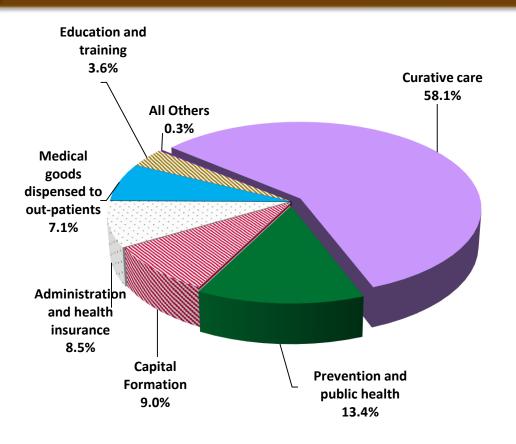


# Expenditure on Health to Ambulatory Healthcare Providers, 2011–2021 (RM Million)

Year	Private Medical Clinics	Public MOH Medical Clinics	Public non- MOH Medical Clinics	TCAM Providers	All other ambulatory	TOTAL
2011	2,844	1,912	50	394	1,451	6,650
2012	3,411	2,337	50	412	1,563	7,773
2013	4,008	2,546	53	424	1,724	8,756
2014	4,829	3,019	55	452	1,956	10,311
2015	4,811	3,116	45	534	2,229	10,735
2016	4,995	3,307	43	624	2,212	11,181
2017	5,385	3,587	49	658	2,447	12,127
2018	5,627	3,886	60	667	2,728	12,968
2019	5,773	4,354	57	667	2,992	13,843
2020	5,306	4,744	56	627	3,146	13,880
2021	5,873	5,258	68	684	7,749	19,632

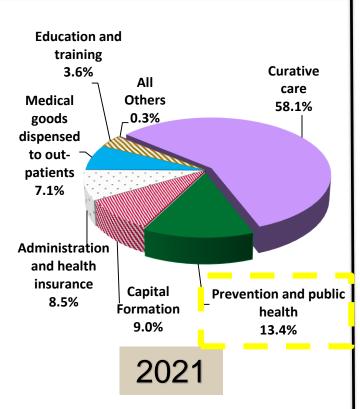


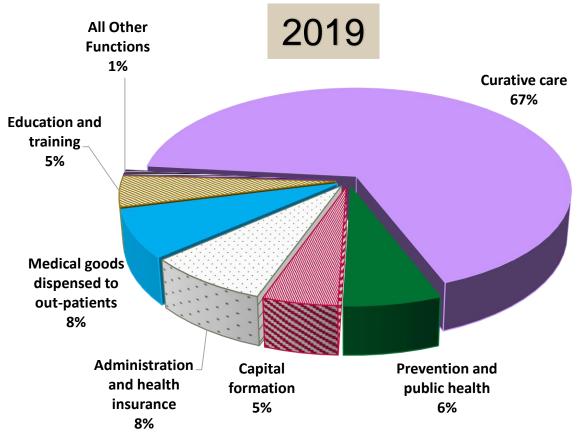
#### TEH for Functions of Healthcare, 2021



Functions of Health Care	2020 RM Million	2021 RM Million
Curative care	41,904	45,204
Prevention and public health	5,357	10,463
Capital formation	5,552	7,046
Administration and health insurance	5,846	6,644
Medical goods dispensed to out- patients	4,752	5,510
Education and training	2,985	2,773
All Other Functions	625	580
TOTAL	67,022	78,220

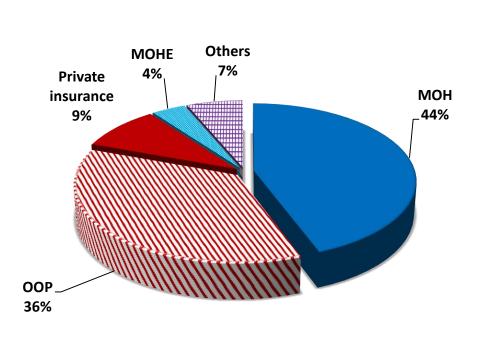
#### Comparison with Pre-pandemic Functions of Healthcare, 2019





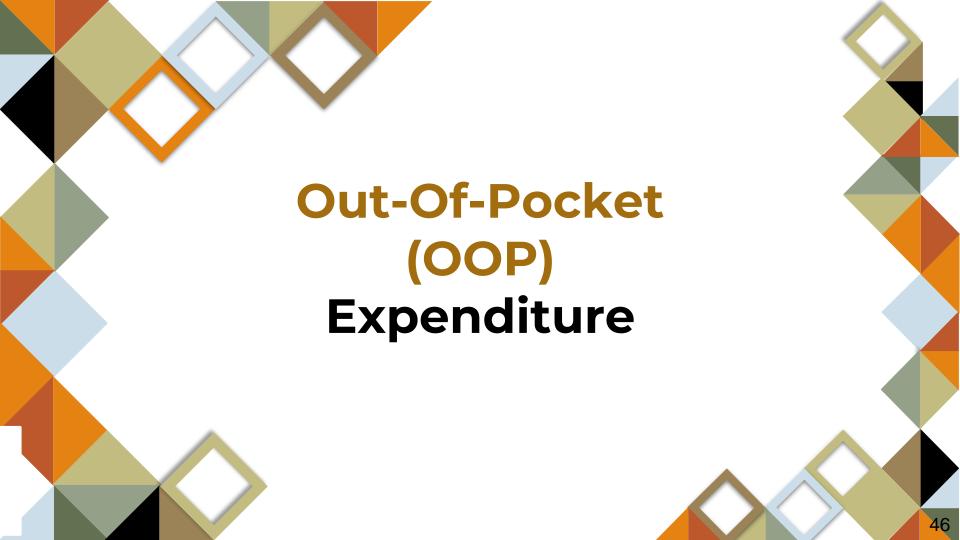
MNHA Section, Planning Division-2022

#### Curative Care by Sources of Financing, 2021

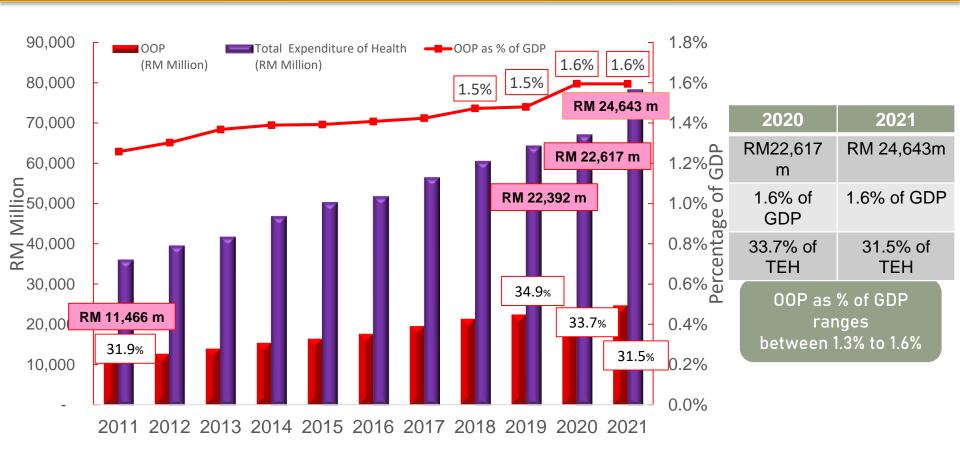


	2020	2021
Sources of financing for Curative Care	RM Million	RM Million
Ministry of Health (MOH)	18,876	20,025
Out-of-pocket expenditures (OOP)	15,142	16,394
Private insurance	4,145	4,191
Ministry of Higher Education (MOHE)	1,300	1,723
Others	2,440	2,871
TOTAL	41,904	45,203

MNHA Section, Planning Division-2022



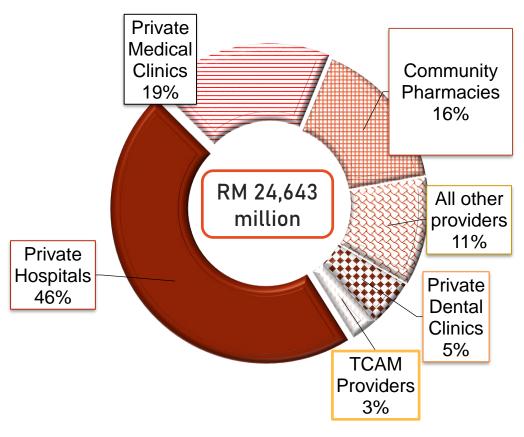
#### OOP as % of TEH, GDP, 2011-2021



# OOP as % of TEH,GDP 2011-2021

Year	OOP (RM Million)	TEH (RM Million)	OOP % TEH	OOP % GDP
2011	11,466	35,953	31.9	1.3
2012	12,649	39,448	32.1	1.3
2013	13,933	41,647	33.5	1.4
2014	15,373	46,780	32.9	1.4
2015	16,391	50,208	32.6	1.4
2016	17,593	51,691	34.0	1.4
2017	19,541	56,364	34.7	1.4
2018	21,319	60,438	35.3	1.5
2019	22,392	64,252	34.9	1.5
2020	22,617	67,022	33.7	1.6
2021	24,643	78,220	31.5	1.6

#### 00P Expenditure to Providers of Healthcare, 2021



Providers of Health care	2020 RM (Million)	2021 RM (Million)
Private Hospitals	10,268	11,423
Private Medical Clinics	4,403	4,632
Community Pharmacies	3,392	3,911
Private Dental Clinics	1,094	1,203
TCAM Providers	627	684
All other providers	2,833	2,790
Total	22,617	<b>24,643</b>

# OOP Expenditure to Providers of Healthcare, 2011–2021

	(RM Million)							
Year	Private Hospitals	Private Medical Clinics	Pharmacies	TCAM Providers	Private Dental Clinics	All other Providers	Total	
2011	5,359	2,272	1,407	394	509	1,526	11,466	
2012	5,613	2,654	1,580	412	560	1,830	12,649	
2013	5,736	3,055	1,842	424	592	2,284	13,933	
2014	6,034	3,767	2,360	452	646	2,115	15,373	
2015	6,809	3,237	2,625	534	851	2,335	16,391	
2016	7,419	3,307	2,749	624	914	2,581	17,593	
2017	8,522	3,780	2,922	658	1,017	2,643	19,541	
2018	9,220	3,974	3,733	667	1,086	2,639	21,319	

Year	Private Hospitals	Private Medical Clinics	Pharmacies	TCAM Providers	Private Dental Clinics	All other Providers	Total
2011	5,359	2,272	1,407	394	509	1,526	11,466
2012	5,613	2,654	1,580	412	560	1,830	12,649
2013	5,736	3,055	1,842	424	592	2,284	13,933
2014	6,034	3,767	2,360	452	646	2,115	15,373
2015	6,809	3,237	2,625	534	851	2,335	16,391
2016	7,419	3,307	2,749	624	914	2,581	17,593
2017	8,522	3,780	2,922	658	1,017	2,643	19,541
2018	9,220	3,974	3,733	667	1,086	2,639	21,319
2019	10,100	4,444	3,292	667	1,152	2,738	22,392

1,095

1,203

627

684

2,833

2,790

22,617

24,643

50

3,392

3,911

10,268

11,423

2020

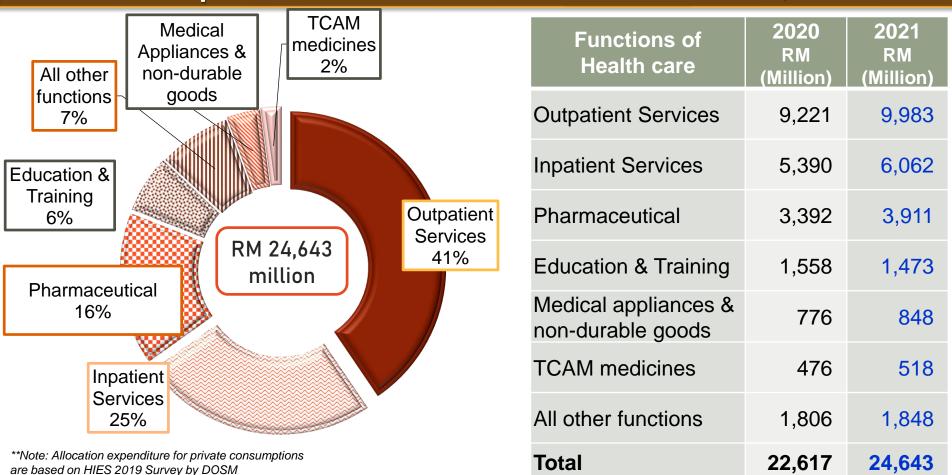
2021

Seksyen MNHA, Bahagian Perancangan – 2022

4,403

4,632

#### 00P Expenditure for Functions of Healthcare, 2021



# OOP Expenditure for Functions of Healthcare, 2011–2021

				(RM Million)				
Year	Outpatient	Inpatient	Pharmaceutical	Med appliances & Non-Durables	ICAM	Education & training	All Other Functions	
2011	5,145	2,786	1,407	384	298	789	657	

1,580

1,842

2,360

2,625

2,749

2,922

3,733

3,292

3,392

3,911

2012

2013

2014

2015

2016

2017

2018

2019

2020

2021

5,709

6,206

7,067

6,937

7,297

8,113

8,618

9,345

9,221

9,983

2,831

2,976

3,056

3,500

3,811

4,479

4,586

5,089

5,390

6,062

394

398

413

599

712

771

801

824

776

848

310

317

335

407

489

513

513

507

476

518

1,066

1,424

1,244

1,325

1,427

1,452

1,452

1,490

1,558

1,473

760

770

898

997

1,108

1,292

1,615

1,845

1,806

1,848

**Total** 

11,466

12,649

13,933

15,373

16,391

17,593

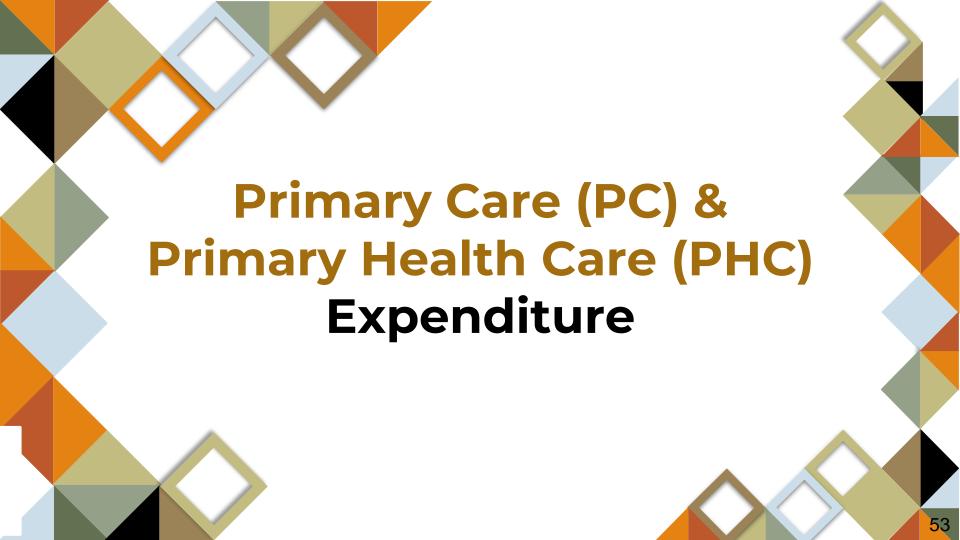
19,541

21,319

22,392

22,617

24,643



# Primary Care & Primary Health Care



#### PRIMARY HEALTH CARE

- Encompasses broader determinants of health.
- Beyond providing health care services to individual.
- Includes prevention and empowering efforts at community level.



#### PRIMARY CARE

- Gate keeper and a key provider process in the health-care system.
- First point of contact, easily accessible at the time of need.
- Providing continued, comprehensive and coordinated care.

- PHC is a complex concept across different types of service and providers
- SHA 2011 and MNHA Framework does not propose a readymade classification for PHC.

#### MNHA & PHC EXPENDITURE

- Several discussions (Family Health Division, NHF Section, Harvard Team and MNHA) to define & identify relevant MNHA codes for data extractionthe boundaries or relevant codes were finalized and data for PC and PHC was extracted for national use.
- In recent updates, WHO, OECD and The Lancet Global Health Commission has developed guidelines on PHC definitions and boundaries.
- Each organizations provide different definitions and boundaries on services and providers of PHC and MNHA is assessing all the recommendations to review and update our own national definitions.

Stregthening primary health care for the future

Fact sheet: October 2022



THE LANCET
Global Health



#### MNHA PHC BOUNDARY

#### Cross tabulation of Function and Provider

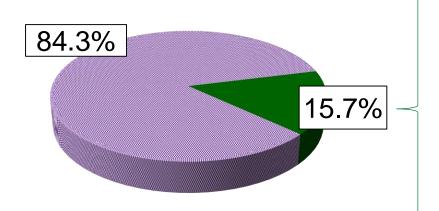
PROVIDER	FUNCTION
Description	Description
Hospitals (MOH)	Basic medical and diagnostic services
Hospitals (Public non-MOH)	Basic medical and diagnostic services
Medical practitioner	Basic medical and diagnostic services
clinics	Services of curative home care
Cilifico	Maternal and child health, family planning and counselling
	Medical school health services
Hospitals & Ambulatory Care	Dental outpatient curative care
Dentist clinics	Dental school health services
All Providers	Prevention and public health services

Primary Health Care (PHC)

# Primary Care (PC)

# PC Expenditure, 2021

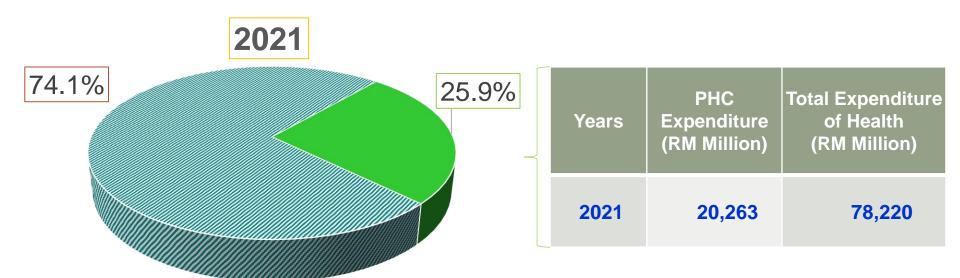




- PC Expenditure
- Others Health Expenditure

Functions of Healthcare	2020 RM (Million)	2021 RM (Million)
Basic medical and diagnostic services	8,406	8,314
Maternal and child health, family planning and counselling	1,681	1,721
Dental outpatient curative	1,362	1,486
Medical school health services	278	305
Dental school health services	426	471
Total Primary Care (PC)	12,132	<b>12,297</b> 57

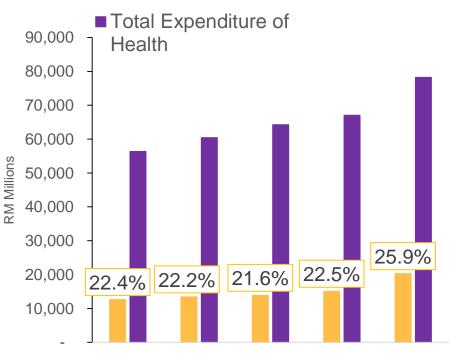
#### PHC Expenditure % of TEH, 2021



- PHC Expenditure (RM Million)
- Others Health Expenditure (RM Million)

#### PHC Expenditure % of TEH, 2017–2021





	_
90%	
80%	
70%	エ
60%	of TEH
50%	tage
40%	ercen
30%	Pe
20%	
10%	

100%

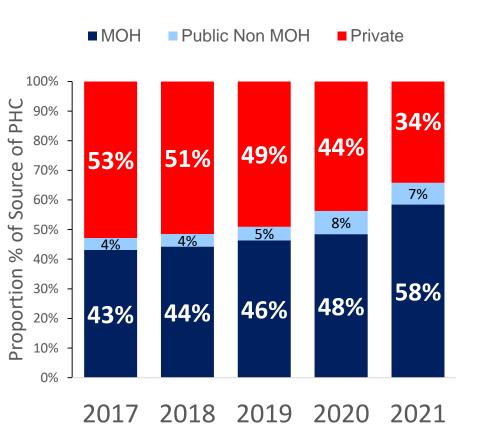
Years	PHC Expenditure (RM Million)	Total Expenditure of Health (RM Million)
2017	12,638	56,364
2018	13,416	60,438
2019	13,885	64,252
2020	15,100	67,022
2021	20,263	78,220

2017 2018 2019 2020 2021

Seksyen MNHA, Bahagian Perancangan - 2022

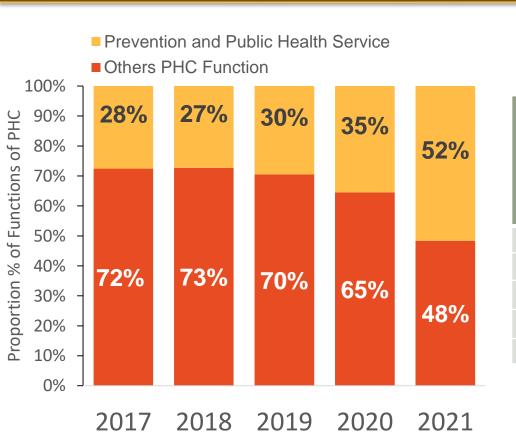
0%

## PHC Expenditure by Sources, 2017-2021



Years	MOH (RM Million)	Public Non - MOH (RM Million)	Private (RM Million)
2017	5,445	517	6,677
2018	5,938	573	6,905
2019	6,435	639	6,811
2020	7,318	1,178	6,604
2021	11,839	1,495	6,930

### PHC Expenditure by Functions, 2017–2021



	PHC Functions		
Years	Prevention and Public Health functions (RM Million)	Others PHC functions (RM Million)	
2017	3,482	9,156	
2018	3,659	9,757	
2019	4,099	9,786	
2020	5,357	9,743	
2021	10,463	9,800	

#### PHSE on PHC Expenditure as a Share of GDP, 2017-2021

Years	PHC Expenditure (RM Million)	Public Sector Health Expenditure on PHC (RM Million)	Public Sector Health Expenditure on PHC as a share of GDP
2017	12,638	5,961	0.4
2018	13,416	6,511	0.4
2019	13,885	7,074	0.5
2020	15,100	8,496	0.6
2021	20,263	13,334	0.9

#### Note:

Based on The Lancet Global Health Commission on financing primary health care:

- -Average of Public sector Health Expenditure on PHC for Upper Middle Income Countries is 1% as of GDP
- -Average of Public sector Health Expenditure on PHC for High Income Countries is 2% as of GDP



# **SHA 2011**



#### SHA 2011 Framework

- Internationally recognized methodology
- Tracks all health spending in a given country over a defined period of time
- Ensures comparability of health expenditure across countries and over time

#### Purpose:

- To provide a framework for international comparisons of health expenditures and health systems analysis using harmonized boundaries
- To provide a tool, expandable by any country, which can produce useful data in the monitoring and analysis of the health system







#### MNHA and SHA 2011 Preventive Care

#### **MNHA Framework**

### Preventive and Public Health Services

Maternal and child health

Medical School health

Dental School health

Communicable Diseases-

HIV/ AIDS

Communicable diseases- Vector borne

Other communicable diseases

Non Communicable Diseases

Occupational health

Food safety

All other public health n.e.c

#### **SHA 2011 Framework**

#### **Preventive Care**

Information, education & counselling programmes

Immunization programmes

Early Disease detection programmes

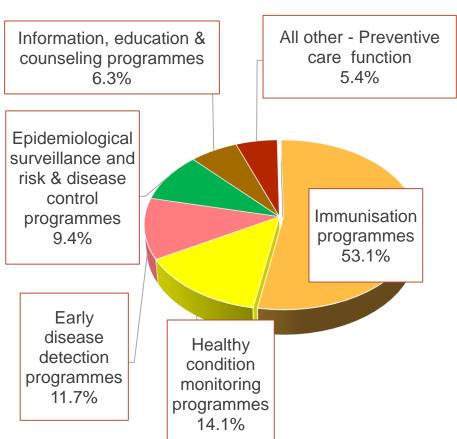
Healthy Condition Monitoring programmes

Epidemiological Surveillance & risk & Disease Control programmes

Preparing for disaster & emergency response programmes

 The difference between MNHA and SHA 2011 framework preventive care function

#### Preventive Care Functions (SHA 2011), 2021



Preventive care function subclassifications	2019 RM Million	2021 RM Million
Immunisation programmes	239	5,400
Healthy condition monitoring programmes	1,567	1,431
Early disease detection programmes	675	1,186
Information, education & counseling programmes	639	642
Epidemiological surveillance and risk & disease control programmes	709	955
All other preventive care function	<1	551
Total	3,829	10,166

# SUMMARY OF 2021

TEH
Total Expenditure of Health
RM 78,220 m



#### TEH as % of GDP

Total Expenditure of Health as percentage of Gross Domestic Product

5.1 %



#### TEH Per-Capita Total Expenditure of Health per capita

RM2,401

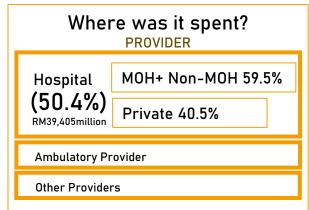


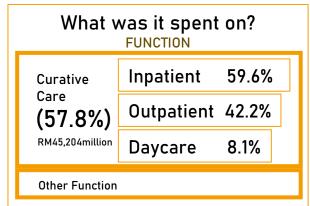
#### OOP % of TEH

Out of pocket percentage per Total Expenditure of Health

31.5%

# Who paid for it? SOURCE Public 57.9% RM42,250million Private 42.1% OOP 31.5% Other Private Agencies





<sup>\*</sup> All the percentages stated in lower boxes are % of TEH

# SUMMARY OF 2021

TEH	RM78,220million
CHE	RM67,746million
TEH as % of GDP	5.1%
CHE as %of GDP	4.4%
Per Capita Expenditure on Health as constant value	RM2,401
TEH by Public Sources of Financing	RM45,250million or 57.9% of TEH
TEH by Private Sources of Financing	RM32,969million or 42.1% of TEH
MOH expenditure on Health	RM38,586million or 49.3% of TEH
All hospitals expenditure on health was highest	RM39,405million or 50.4% of TEH
for TEH by Providers of Healthcare	
Curative care services expenditure on health was highest	RM45,204million or 58.1% of TEH
for TEH by Functions of Healthcare	
Private household out-of-pocket expenditures (00P)	RM24,643million or 31.5% of
	TEH
OOP expenditure was highest at private hospitals	RM11,423million or 46.4% of
for OOP by Providers of Healthcare	total 00P expenditure
OOP expenditure was highest for outpatient service	RM9,983million or 40.5% of
for OOP by Functions of Healthcare	total
-	00P expenditure