

FINAL DATABASE & DISSEMINATION

**“ BUILDING & VALIDATION
” REPORTING NHA**

Nur Syazana Binti Mad Tahir

14th March 2017

MNHA Seminar 2017

Hotel Bangi-Putrajaya

Database building

- “ Final analyse data from each agency has to be merge into one master database.
- “ Each agency final output has to be in standardized format (10D).

10D in Excel format

MNHA database code

ICHA database code

year	state	agency	mnhasource	mnhaprovider	mnhafunction	exp	ichasource	ichaprovider	ichafunction	
1997	18	1119050000	1119	1110	1100	0	111	110	110	
1997	18	1119050000	1119	3105	1310	0	111	310	131	
1997	18	1119050000	1119	3524	1200	586528.4928	111	344	120	
1997	18	1119050000	1119	4100	5101	182221.0226	111	410	511	
1997	18	1119050000	1119	4900	5202	47906.74165	111	490	522	
1998	18	1119050000	1119	1110	1100	0	111	110	110	
1998	18	1119050000	1119	3105	1310	0	111	310	131	
1998	18	1119050000	1119	3524	1200	916441.5792	111	344	120	
1998	18	1119050000	1119	4100	5101	284717.4924	111	410	511	
1998	18	1119050000	1119	4900	5202	74853.53314	111	490	522	
1999	18	1119050000	1119	1110	1100	0	111	110	110	
1999	18	1119050000	1119	3105	1310	0	111	310	131	
1999	18	1119050000	1119	3524	1200	1270249.7	111	344	120	
1999	18	1119050000	1119	4100	5101	700200	111	410	511	
1999	18	1119050000	1119	4900	5202	23300	111	490	522	
2000	18	1119050000	1119	1110	1100	0	111	110	110	
2000	18	1119050000	1119	3105	1310	0	111	310	131	
2000	18	1119050000	1119	3524	1200	6783435.32	111	344	120	
2000	18	1119050000	1119	4100	5101	1403812	111	410	511	
2000	18	1119050000	1119	4900	5202	187250	111	490	522	
2001	18	1119050000	1119	1110	1100	0	111	110	110	
2001	18	1119050000	1119	3105	1310	0	111	310	131	
2001	18	1119050000	1119	3524	1200	11702745.24	111	344	120	
2001	18	1119050000	1119	4100	5101	3190941.54	111	410	511	

Database Building & Validation

	6-8 weeks duration
1	10D collection and verification of totals by each agency
2	Merging all 10D into single Stata database
3	Verification of MP & MF code by each agency
4	OOP by category for third party deduction
5	OOP third party deduction & merge to Stata database
6	Final database data extraction by agency for verification
7	Trend checking by agency (previous database, officer 10D submission, final database)
8	Newly establish MNHA Technical Advisory Committee will be involve in step no.7

Data validation

“ This process is done for the final output of each agency and also the final database.

“ Validation is to verify **value** and **code**.

“ Software used:

- . Microsoft Excel
- . Stata

VALUE VALIDATION

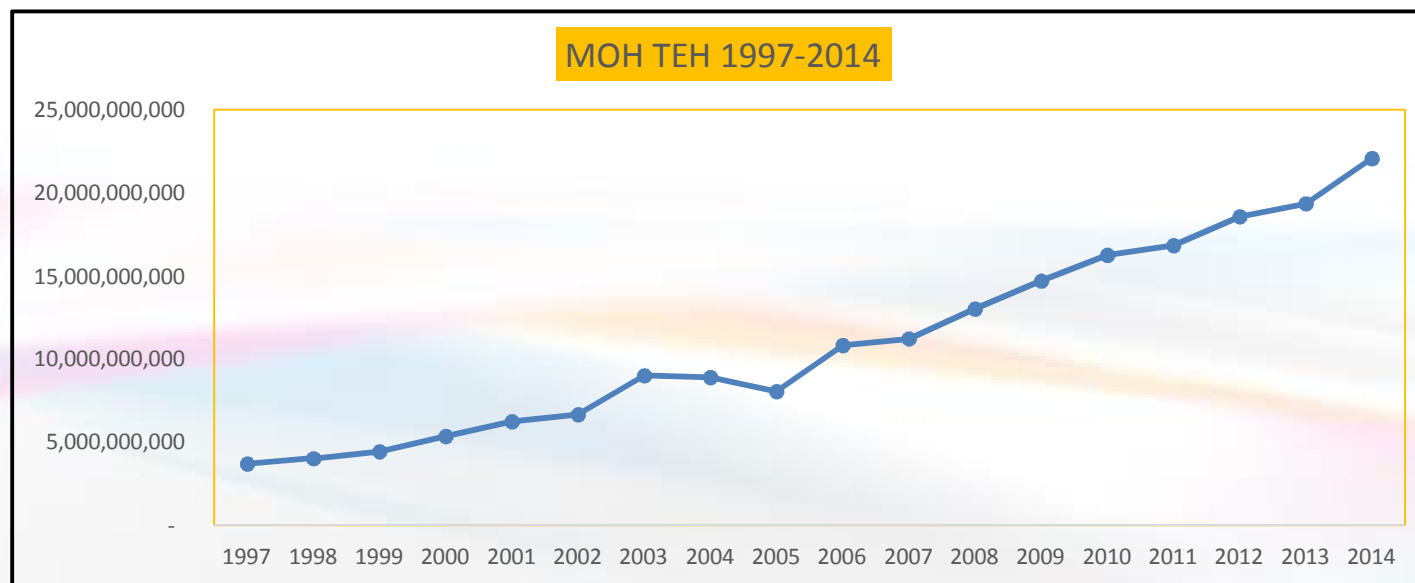
Value Validation

- Total value of individual data source/agency is counter-checked with previous year time-series data (4 stages):
 1. At Technical officers meeting
 - . OIC presents their time series expenditure data
 2. By assigned officer to collect final outputs
 - . OIC also validate the variables name
 - . Standardize the Excel format (10D)

Value Validation

Example:

MASTER DATABASE 1997-2014											
SOURCES	Datasource	OIC	2006	2007	2008	2009	2010	2011	2012	2013	2014
MOH	Old	Dr. Kairul	10,838,249,763	11,242,840,747	13,036,250,066	14,712,834,910	16,265,899,347	16,856,432,572	18,592,981,563	19,370,132,317	-
	Old DB	Dr. Kairul	10,838,249,763	11,242,840,747	13,036,250,066	14,712,834,910	16,265,899,347	16,856,432,572	18,592,981,563	19,370,132,317	-
	New	Dr. Kairul	10,838,249,763	11,242,840,747	13,036,250,066	14,712,834,910	16,265,899,347	16,856,432,572	18,592,981,563	19,370,132,317	22,084,198,257
	10D	Pn Syazana	10,838,249,763	11,242,840,747	13,036,250,066	14,712,834,910	16,265,899,347	16,856,432,572	18,592,981,563	19,370,132,317	22,084,198,257
	Hisham DB	En. Hisham	10,838,249,763	11,242,840,747	13,036,250,066	14,712,834,910	16,265,899,347	16,856,432,572	18,592,981,563	19,370,132,317	22,084,198,257



Value Validation

- Total value of individual data source/agency is counter-checked with previous year time-series data (4 stages):
 1. At Technical officers meeting
 - . OIC presents their time series expenditure data
 2. By assigned officer to collect final outputs
 - . OIC also validate the variables name
 - . Standardize the Excel format (10D)

Data source list: Public

TABLE A1.1 : Source of Data			
Data Sources for Public Sector Estimation			
PUBLIC SECTOR			
	Main Agencies	Specific Organization	Source of Data
1	Ministry of Health (MOH)	Accountant-General's Department	MOH - AG DATA (expenditure)
2	Other Ministries	Ministry of Higher Education	MNHA survey - MOHE
		Ministry of Defence	MNHA survey - MOD
3	Other Federal Agencies	National Population and Family Development Board	MNHA survey - LPPKN
		Department of Orang Asli Affairs	MNHA survey - JHEOA
		Public Service Department-Pension	MNHA survey - JPA
		Civil Defense Department	MNHA survey - JPA3
		Prison Department of Malaysia	MNHA survey - PENJARA
		Social Welfare Department	MNHA survey - JKM
		Occupational Safety And Health Department	MNHA survey - DOSH
		National Institute of Occupational Safety & Health Malaysia	MNHA survey - NIOSH
		National Anti-Drug Agency	MNHA survey - AADK
		Pilgrims Fund Board	MNHA survey - LTH
		National Heart Institute	MNHA survey - IJN
		Federal Statutory Bodies	MNHA survey - BERKANUN (Fed)
		Public Water Supply Department	MNHA survey - JBA (OFA)
		National Sports Institute of Malaysia	MNHA survey - ISN
		Employee Provident Fund - HQ	MNHA survey - KWSP (0001)
		Employee Provident Fund - state	MNHA survey - KWSP (0002)
		Social Security Organization - HQ	MNHA survey - PERKESO (0001)
		Social Security Organization - state	MNHA survey - PERKESO (0002)
		Ministry of Science Technology and Innovation	MNHA survey - MOSTI
		Public Higher Education Institutions	MNHA survey - TRAINING (OFA-Pu)
		Private Higher Education Institutions	MNHA survey - TRAINING (OFA-Pr)
4	State Agencies	State Government (General)	MNHA survey - KN
		Public Water Supply Department	MNHA survey - JBA (state)
		State Statutory Body (SSB)	MNHA survey - BERKANUN (state)
		Public Water Supply	MNHA survey - JBA (SSB)
		Zakat Collection Centre	MNHA survey - MAIN
5	Local Authorities	Local Authority - Health care Services	MNHA survey - PBT (Perkhid)
		Local Authority - Staff	MNHA survey - PBT (Ktgn)

Data source list: Private

TABLE A1.2 : Source of Data			
Data Sources for Private Sector Estimation			
PRIVATE SECTOR			
	Main Agencies	Specific Organization	Source of Data
1	Private Insurance	Central Bank of Malaysia	MNHA survey - BNM
		Insurance Agencies	MNHA survey - INSURAN
2	Managed Care Organization	MCO Agencies	MNHA Survey - MCO
3	Out of Pocket (Gross Spending)	MOH user charges	MOH - AG DATA (Revenue)
		IJN user charges	MNHA Survey - IJN
		MOE user charges	MNHA Survey - KPT
		Private Hospital (MNHA)	MNHA Survey - PRIVATE HOSPITAL
		Private Hospital (DOSM)	DOSM Survey - PRIVATE HOSPITAL
		Private Clinic Medical, DOSM	DOSM Survey - PRIVATE MEDICAL CLINIC
		Private Clinic dental, DOSM	DOSM Survey - PRIVATE DENTAL CLINIC
		Private Haemodialysis Centre (MNHA)	MNHA Survey - PRIVATE HEMO (0001)
		Pharmacy Division, MOH	MNHA Survey - FARMASI (0001)
		Intercontinental Medical Supply, IMS	MNHA Survey - FARMASI (0002)
		Medical supplies HES, DOSM	DOSM Survey - HES DATA
		Medical durables / prostheses / equipment HES, DOSM	DOSM Survey - HES DATA
		Ancillary services HES, DOSM	DOSM Survey - HES DATA
		Private TCM HES, DOSM	DOSM Survey - HES DATA
		Public Higher Education Institutions	MNHA survey - TRAINING (OOP-Pu)
		Private Higher Education Institutions	MNHA survey - TRAINING (OOP-Pr)
4	Out-of Pocket (Third Party Deductions)	Insurance Agencies	MNHA Survey - INSURAN
		Central Bank of Malaysia	MNHA survey - BNM
		Private Corporations	MNHA Survey - PRIVATE CORPORATION
		Employees Provident Fund	MNHA Survey - KWSP
		Social Security Organization	MNHA Survey - PERKESO
		Federal Statutory Bodies	MNHA Survey - BERKANUN (Fed)
		State Statutory Body (SSB)	MNHA Survey - BERKANUN (state)
		FOMEMA/UNITAB MEDIC - OOP data	MNHA Survey - UNITABMEDIC
		GROWARISAN - OOP data	MNHA Survey - GROWARISAN
5	Non-Government Organization	Non-Governmental Organizations	MNHA survey - NGO
6	Corporations	Limited and Private Limited Corporations	MNHA Survey - PRIVATE CORPORATION
		Corps - Labour Force Survey	DOSM Survey - CORPS_DOS (0002)
		Industrial Survey & Manufacturing, DOSM	DOSM Survey - CORPS_DOS (0001-non m
		Private Hospital staff, DOSM	DOSM Survey - CORPS_DOS (0001-hosp)
		Private Clinic Medical, DOSM	DOSM Survey - CORPS_DOS (0001-clinic)
		Private Clinic Dental, DOSM	DOSM Survey - CORPS_DOS (0001-denta
		Private Water Supply Department	MNHA survey - JBA (corp)
		FOMEMA/UNITAB MEDIC	MNHA Survey - UNITABMEDIC
		GROWARISAN	MNHA Survey - GROWARISAN
		Public Higher Education Institutions	MNHA survey - TRAINING (Corp-Pu)
		Private Higher Education Institutions	MNHA survey - TRAINING (Corp-Pr)
7	Rest of the world	International Organizations in Malaysia	MNHA survey - Rest
8	Other National Surveys	DOSM-Population survey	General-DOS General_DOS (0001)
		DOSM-GDP & GDP Deflator	General-DOS General_DOS (0002)
		DOSM-Household Consumption	General-DOS General_DOS (0003)

Value Validation

3. By officer 1 to merge all data sources

- . Convert each excel file into STATA format **(.dta)**
- . Append all agencies using STATA to built one dataset.
- . Add other variables (MNHA label and SHA label) base on Master Classifications.
- . Cleaning process.

4. By officer 2 to extract data from final database

- . Using STATA and plot graph.

Data Editor (Browse) - [all data no OOP.dta]												
File Edit View Data Tools												
year[1] 2008												
	year	state	agency	mnhasource	mnhaprovider	mnhafunction	exp	ichasource	ichaprovider	ichafunction	file	
1	2008	9	1120020900	1122	1101	1330	217.45503	112	110	133	SSB_100	
2	2006	10	2600100000	2600	1101	1100	1097622.7	250	110	110	CORPS_100	
3	2004	15	1130001500	1130	1101	1200	5.3488348	113	110	120	LA staff_100	
4	2005	7	1119170701	1122	1101	1310	0	112	110	131	MAIN_100	
5	2003	9	1130000900	1130	1101	1200	8.5489825	113	110	120	LA staff_100	
6	2005	18	1202001800	1220	1101	1100	315336.52	120	110	110	SOCSCO CLAIM_100	
7	2003	6	1130000600	1130	1101	1330	24.154858	113	110	133	LA staff_100	
8	2008	14	1130001400	1130	1101	1100	13589.909	113	110	110	LA staff_100	
9	2001	16	2600160000	2600	1101	1200	0	250	110	120	CORPS_100	
10	2002	14	1130001400	1130	1101	1200	61.100436	113	110	120	LA staff_100	
11	2001	11	1130001100	1130	1101	1330	7.3479942	113	110	133	LA staff_100	
12	1999	5	1202000500	1220	1101	1100	1948.2733	120	110	110	SOCSCO CLAIM_100	
13	2011	10	2600100000	2600	1101	1330	104797.95	250	110	133	CORPS_100	
14	2005	4	1202000400	1220	1101	1330	9766.4121	120	110	133	SOCSCO CLAIM_100	
15	2012	9	2500080007	2500	1101	1100	2427.6416	240	110	110	NGO_100	
16	2008	14	2500140011	2500	1101	1310	0	240	110	131	NGO_100	
17	2000	6	1130000600	1130	1101	1330	7.3983988	113	110	133	LA staff_100	
18	2007	3	2600030000	2600	1101	1330	26608.567	250	110	133	CORPS_100	
19	1998	9	1202000900	1220	1101	1100	671.90451	120	110	110	SOCSCO CLAIM_100	
20	2013	3	1120020300	1122	1101	1100	39427.509	112	110	110	SSB_100	
21	2000	8	2500080005	2500	1101	1100	896	240	110	110	NGO_100	
22	2000	10	1119081005	1119	1101	1100	1075.8625	111	110	110	JKM_100	
23	2004	13	1130001300	1130	1101	1330	71.572156	113	110	133	LA staff_100	
24	1997	14	1130001400	1130	1101	1100	247.10513	113	110	110	LA staff_100	
25	2008	8	2500080002	2500	1101	1100	601.3125	240	110	110	NGO_100	
26	2000	5	1130000500	1130	1101	1200	12.226253	113	110	120	LA staff_100	
27	2006	5	1130000500	1130	1101	1100	4348.2067	113	110	110	LA staff_100	
28	2011	1	1119080102	1119	1101	1100	0	111	110	110	JKM_100	
29	2005	8	1120020800	1122	1101	1100	1597.3486	112	110	110	SSB_100	
30	2009	14	2500140010	2500	1101	1100	0	240	110	110	NGO_100	
31	1999	13	1202001300	1220	1101	1200	2270.8623	120	110	120	SOCSCO CLAIM_100	
32	2001	9	1130000900	1130	1101	1200	4.3358329	113	110	120	LA staff_100	
33	2009	14	2500140011	2500	1101	1200	0	240	110	120	NGO_100	
34	2005	15	1202001500	1220	1101	1200	0	120	110	120	SOCSCO CLAIM_100	
35	2008	8	1130000800	1130	1101	1330	253.79147	113	110	133	LA staff_100	
36	2005	10	2600100000	2600	1101	1330	0	250	110	133	CORPS_100	
37	1997	13	1119081302	1119	1101	1100	0	111	110	110	JKM_100	

Variables

Filter variables here

Variable	Label
<input checked="" type="checkbox"/> year	year
<input checked="" type="checkbox"/> state	state
<input checked="" type="checkbox"/> agency	agency
<input checked="" type="checkbox"/> mnhasource	mnhasource
<input checked="" type="checkbox"/> mnhaprovider	mnhaprovider
<input checked="" type="checkbox"/> mnhafunction	mnhafunction
<input checked="" type="checkbox"/> exp	exp
<input checked="" type="checkbox"/> ichasource	ichasource
<input checked="" type="checkbox"/> ichaprovider	ichaprovider
<input checked="" type="checkbox"/> ichafunction	ichafunction
<input checked="" type="checkbox"/> file	

Properties

Variables

Name	year
Label	year
Type	float
Format	%10.0g
Value Label	
Notes	

Data

Filename	all data no OOP.dta
Label	
Notes	
Variables	11
Observations	6,957,846
Size	338.41M
Memory	448M

Ready

Vars: 11 Order: Dataset Obs: 6,957,846 Filter: Off Mode: Browse CAP NUM

MNHA database 1997-2014

View Data Tools



MP_GRP[100698]

MP3

state	agency	mnhasource	mnhaprovider	mnhafunction	exp	ichasource	ichaprovider	ichafunction	file	mnha_source	mnha_provi~r	mnha_funct~n	icha_source	icha_provi~r	icha_funct~n	M
11	1111021106	1111	3101	7100	294,470.29	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
5	1111020503	1111	3101	7100	1,145,968.42	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
13	1111051310	1111	6101	7100	1,320,721.5	111	610	710	MOH PPD_100	MS1.1.1.1	MP6.1a	MF7.1	HF.1.1.1	HP.6.1	HC.7.1	
3	1111020304	1111	3101	7100	1,671,113.248	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
5	1111020505	1111	3101	7100	2,301,413.67	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
1	1119020100	1119	6104	7100	907.876046758	111	610	710	PRISON_100	MS1.1.1.9	MP6.1.2b	MF7.1	HF.1.1.1	HP.6.1	HC.7.1	
3	1111050305	1111	6101	7100	664,950.38992	111	610	710	MOH PPD_100	MS1.1.1.1	MP6.1a	MF7.1	HF.1.1.1	HP.6.1	HC.7.1	
10	1202001000	1220	6200	7100	823,032.15757	120	620	710	SOC SO HQ_100	MS1.2.2	MP6.2	MF7.1	HF.1.2	HP.6.2	HC.7.1	
11	1202001100	1220	6200	7100	30,206.470582	120	620	710	SOC SO HQ_100	MS1.2.2	MP6.2	MF7.1	HF.1.2	HP.6.2	HC.7.1	
18	1111031804	1111	6101	7100	867,642.27	111	610	710	MOH HQ_100	MS1.1.1.1	MP6.1a	MF7.1	HF.1.1.1	HP.6.1	HC.7.1	
12	1111051209	1111	6101	7100	1,519,479.644	111	610	710	MOH PPD_100	MS1.1.1.1	MP6.1a	MF7.1	HF.1.1.1	HP.6.1	HC.7.1	
10	1111041000	1111	5103	7100	2,617,067.63	111	500	710	MOH JKN_100	MS1.1.1.1	MP5.3a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
3	1202000300	1220	6200	7100	74,864.099162	120	620	710	SOC SO HQ_100	MS1.2.2	MP6.2	MF7.1	HF.1.2	HP.6.2	HC.7.1	
12	1111021209	1111	3101	7100	371,376.01152	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
13	1130031303	1130	5202	7100	204.003480685	113	500	710	LA Perkhi...	MS1.1.3	MP5.2b	MF7.1	HF.1.1.3	HP.5	HC.7.1	
10	1111021010	1111	3101	7100	1,101,663.835	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
2	1111020206	1111	5102	7100	320,508.92	111	500	710	MOH PKD_100	MS1.1.1.1	MP5.2a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
1	1111020104	1111	3101	7100	505,990	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	
8	1111020104	1111	5102	7100	1,084,186.11	111	500	710	MOH PKD_100	MS1.1.1.1	MP5.2a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
4	1111020402	1111	5102	7100	2,018,183.28	111	500	710	MOH PKD_100	MS1.1.1.1	MP5.2a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
10	1130031001	1130	5202	7100	4,655,075.957	113	500	710	LA Perkhi...	MS1.1.3	MP5.2b	MF7.1	HF.1.1.3	HP.5	HC.7.1	
5	1111020504	1111	5102	7100	624,793.26	111	500	710	MOH PKD_100	MS1.1.1.1	MP5.2a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
6	1111040600	1111	5104	7100	845,299.89	111	500	710	MOH JKN_100	MS1.1.1.1	MP5.4a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
11	1130041101	1130	5202	7100	80,253.409231	113	500	710	LA Perkhi...	MS1.1.3	MP5.2b	MF7.1	HF.1.1.3	HP.5	HC.7.1	
6	1111020607	1111	5102	7100	984,607.94846	111	500	710	MOH PKD_100	MS1.1.1.1	MP5.2a	MF7.1	HF.1.1.1	HP.5	HC.7.1	
1	1111020103	1111	3101	7100	343,431.21	111	310	710	MOH PKD_100	MS1.1.1.1	MP3.1a	MF7.1	HF.1.1.1	HP.3.1	HC.7.1	

Value Validation

3. By officer 1 to merge all data sources

- . Convert each excel file into STATA format **(.dta)**
- . Append all agencies using STATA to built one dataset
- . Add other variables (MNHA label and SHA label) using Master Classifications
- . Cleaning process

4. By officer 2 to extract data from final database

- . Using STATA and plot graph

CODE VALIDATION

Code Validation

- Verify the state and source (MS) code in the Master database.
- NHA framework provider & function code verification of individual agency
 - Verify the combination code of MP and MF for each agency in time series data.
 - Stata (do.file)
 - Reduce technical error in the database

Example:

Jadual C: Agihan perbelanjaan kesihatan [RM] mengikut fasiliti dan aktiviti kesihatan bagi tahun 2014-2015

Fasiliti	Aktiviti	Provider	Function
Hospital Kementerian Kesihatan Malaysia (KKM)	Perkhidmatan Rawatan Pesakit Dalam (Inpatient care) (termasuk konsultasi, ujian makmal, x-ray, ubat-ubatan dll.)	MP1.1a	MF1.1
	Perkhidmatan Rawatan Pesakit Luar (Outpatient care) (termasuk konsultasi, ujian makmal, x-ray, ubat-ubatan dll.)		MF1.3.3
	Perkhidmatan Rawatan Pesakit Jagaan Harian Daycare (cth: scope, transfusion, dialysis etc)		MF1.2
Klinik Kesihatan Kerajaan (KKM)	Perkhidmatan Rawatan Pesakit Luar (Outpatient care) (termasuk konsultasi, ujian makmal, x-ray, ubat-ubatan dll.)	MP3.1a	MF1.3.1
Perkhidmatan pengangkutan swasta (cth: ambulans First Aid, Mahamas, St. John's, dll.)	Perkhidmatan ambulans (tidak termasuk teksi, van, Uber, dll.)	MP3.9.1c	MF4.3
Makmal swasta - standalone (cth: Pathlab, BP Lab, Gribbles, dll.)	Perkhidmatan ujian makmal	MP3.6c	MF4.1
Pusat radiologi swasta - standalone (cth: Daya X-rays, Heartscan, etc.)	Perkhidmatan diagnostik dan pengimejan	MP3.6c	MF4.2
Pusat dialisis swasta	Perkhidmatan dialisis	MP3.5.4c	MF1.2

MNHA COMMITTEES

MNHA COMMITTEES

“ MNHA TECHNICAL COMMITTEE

“ MNHA STEERING COMMITTEE

“ MNHA TECHNICAL ADVISORY COMMITTEE
(NEW)

MNHA TECHNICAL COMMITTEE

- “ Members:
 - technical staff headed by the Deputy Director of the MNHA Unit.
- “ Main Functions:
 - data collection, data analyses, data coding and reporting of national health expenditure estimations.
- “ Perform validation of the data through out data analysis and database building process.
- “ Prepare and present work process & output including reports to **MNHA Technical Advisory Committee (New)** and Steering Committee.
- “ Study and submit all data request.

MNHA STEERING COMMITTEE

- “ Co-chaired by: -Director General of Health, Malaysia
-Secretary General of MOH
- “ Ensure various government and private agencies provide support to MNHA Unit activities.
- “ Responsible for **endorsing MNHA reports** and any amendments made to the MNHA framework and methodology of estimates on health expenditures.
- “ Meetings held at least once a year.

MEMBERS:

- MOH members
- Prime Minister's Department
- Non-MOH Ministerial, Departmental and Statutory
Body members
- Associations & Other members

MNHA TECHNICAL ADVISORY COMMITTEE (NEW)

- “ Provide technical advice to the MNHA Technical Committee
 - data source list, data collection, data extraction, data trend changes and data presentation
- “ To review NHA estimations by MNHA Technical Committee, before presentation to MNHA Steering Committee meeting.
- “ Recommendations to ensure NHA estimations and reports are of policy relevance and internationally comparable.

MNHA TECHNICAL ADVISORY COMMITTEE (NEW)

” Suggest and review:

- additional data extraction which are of current policy interest and international comparisons.
- additional NHA related issues to be raised to the Steering Committee.

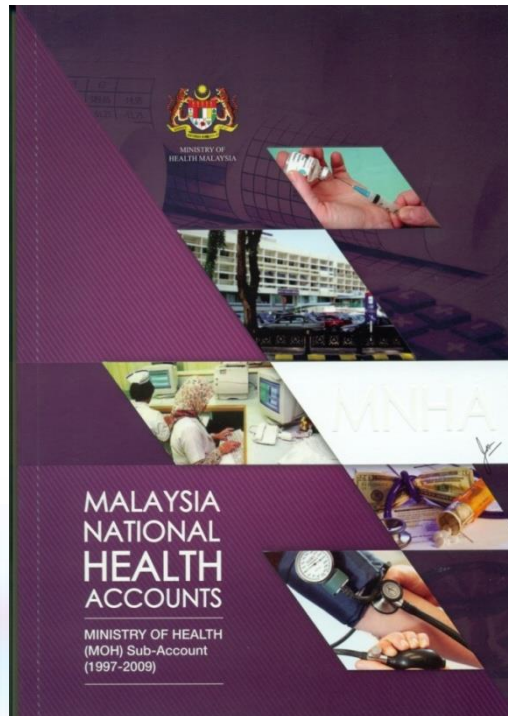
” Meetings held a minimum of three times a year.

REPORTING NHA

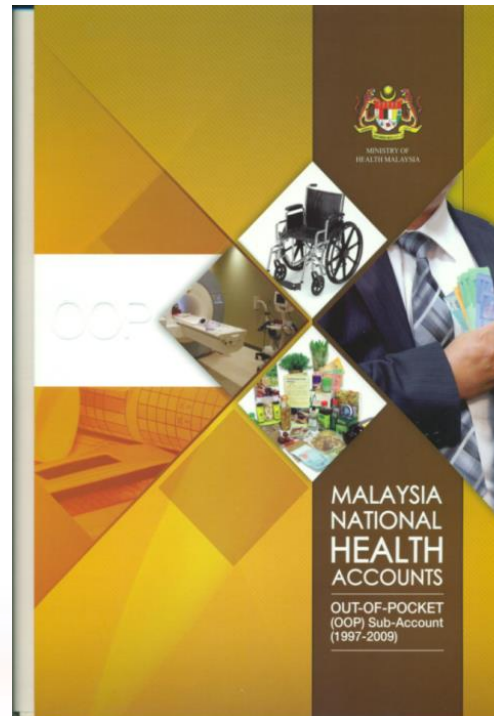
MNHA data publication and dissemination

- MNHA Steering Committee approval
- Publications & dissemination to all data sources
- Routine data extraction
- MOH website upload
- Additional data extraction based on request-through out the year and various format

Current Publications-National

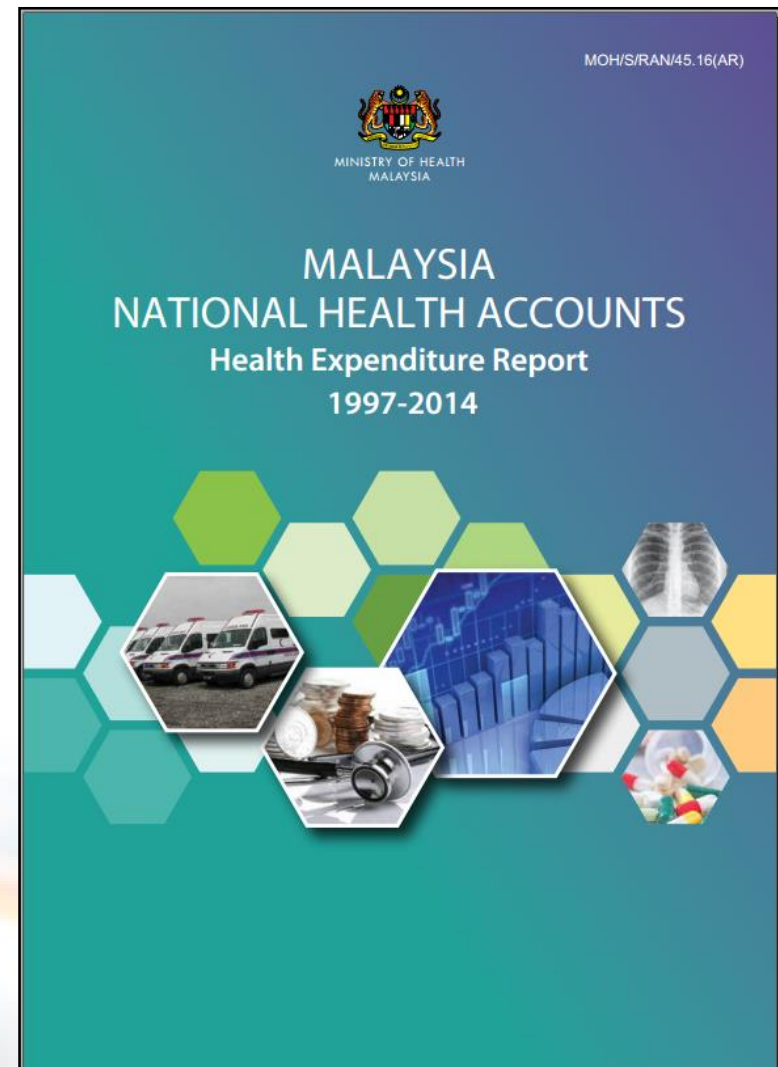


MOH



OOP

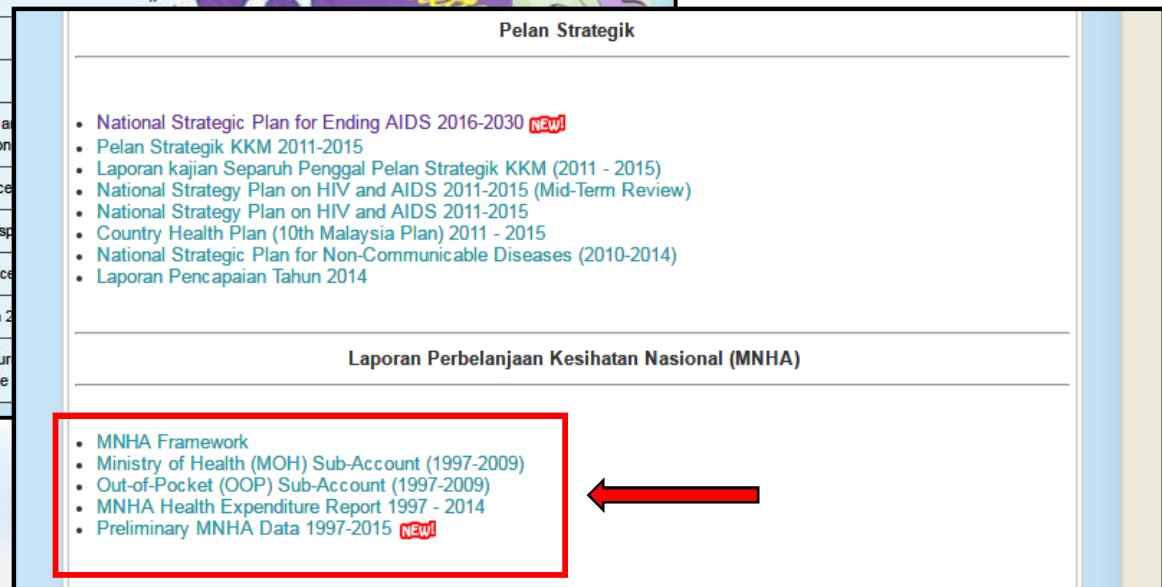
MNHA Sub-Accounts Reports



Current website upload-National



Website:
www.moh.gov.my



Current website upload-International

WHO NHA Global Health Expenditure Database web page:

The image displays two overlapping screenshots of the WHO Global Health Expenditure Database (GHED) website. The top screenshot shows the 'Data Explorer' interface, where users can select indicators, countries, years, and units of expenditure. The bottom screenshot shows the 'Health Accounts' section, which provides information about the Global Health Expenditure Database and the Country Health Accounts (CHA) tables.

2014 Data (T-2)

World Health Organization Global Health Expenditure Database

Data Explorer Quick Reports Documentation Centre Help

Select

- Indicators and data
0 of 53 selected
Reset
- Countries
0 of 194 selected
Reset
- Years
0 of 20 selected
Reset
- Units of expenditures
Million NCU

Indicators and data

Quick filter

- INDICATORS
- HEALTH EXPENDITURE DATA
- MACRO DATA
- GLOBAL HEALTH OBSERVATORY

View data and build report

World Health Organization

Health Accounts

Global Health Expenditure Database

The Global Health Expenditure Database (GHED) presents internationally comparable health expenditures for all WHO Member States from 1995 to present.

— Global Health Expenditure Database

Our data are grouped in two separate databases:

- Global Health Account data and indicators (gHA):**
The global health expenditure database provides internationally comparable numbers on health expenditures. WHO updates the data annually, adjusting and estimating the numbers based on publicly available reports (health account reports, reports from the Ministry of Finance, Central Bank, National Statistics Offices, public expenditure information and reports from the World Bank, the International
- Country HA tables (cHA):**
These are the tables/matrices of general and disease-specific health expenditures as presented in countries' own original health accounts reports. The data is presented in tabular format and by indicator. For the indicators, the health expenditures are taken from the tables but the denominators (macro variables like GDP and population) are taken from GHED.

About us
Contact us
What we do

Links
WHO Health system financing
WHO Universal health coverage
WHO-CHOICE
OneHealth Tool
World Health Statistics Report (WHS)
WHO Global Health Observatory (GHO)
OECD: A System of Health Accounts 2011

International Health Expenditure Data (GHED)

Quick Reports

World Health Organization

Global Health Expenditure Database

Data Explorer

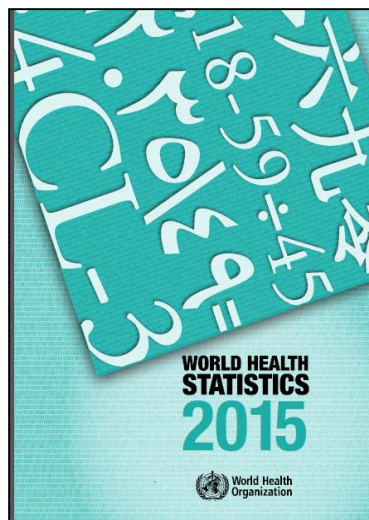
Quick Reports

Documentation Centre

Help

<

Current Publications-International

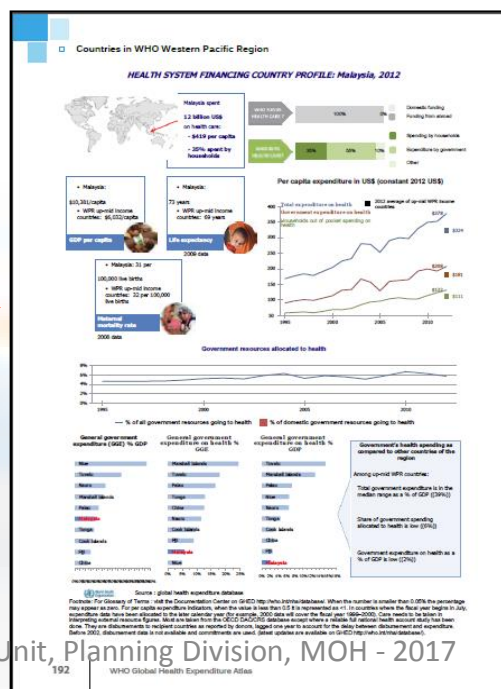
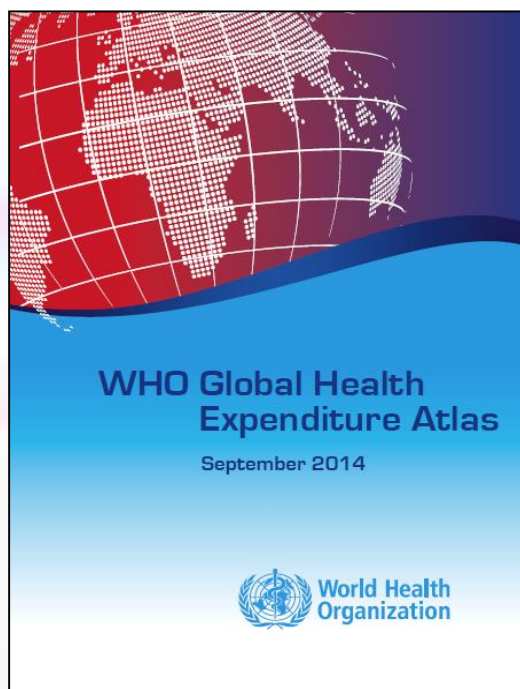


7. Health expenditure

Member State	Total expenditure on health as % of gross domestic product		General government expenditure on health as % of total expenditure on health ^a		Private expenditure on health as % of total expenditure on health ^a		General government expenditure on health as % of total government expenditure		External resources for health as % of total expenditure on health		Social security expenditure on health as % of general government expenditure on health ^b	
	2000	2012	2000	2012	2000	2012	2000	2012	2000	2012	2000	2012
Djibouti	5.8	8.8	67.8	59.7	32.2	40.3	12.0	14.1	32.6	12.7	11.3	9.5
Dominica	5.0	5.8	69.0	70.2	31.0	29.8	6.6	10.4	3.7	3.9	0	0.1
Dominican Republic ^c	6.3	5.4	34.5	50.9	65.5	49.1	15.9	14.3	2.0	0.4	17.0	41.3
Ecuador ^d	3.6	6.4	31.2	44.8	68.8	55.2	6.4	7.1	4.1	0.4	28.0	33.1
Egypt ^e	5.4	4.9	40.5	39.0	59.5	61.0	7.3	5.8	1.0	0.4	24.3	20.8
El Salvador ^d	8.0	6.7	45.2	62.8	54.8	37.2	14.3	15.5	0.9	1.4	49.3	43.1
Equatorial Guinea ^d	2.7	3.4	79.3	80.3	20.7	19.7	8.7	7.0	7.4	1.6	0	0
Eritrea ^a	4.1	3.0	39.1	46.5	60.9	53.5	2.6	3.6	29.8	24.4	0	0
Estonia	5.3	5.9	77.2	78.7	22.5	21.3	11.3	11.7	0.3	1.5	86.4	86.6
Ethiopia	4.4	4.9	54.6	60.6	45.4	39.4	9.4	16.4	16.0	40.9	0	0
Fiji ^f	3.9	4.0	83.6	66.2	16.4	33.8	11.3	9.4	7.4	5.6	0	0
Finland	7.2	9.1	71.3	75.0	28.7	25.0	10.6	12.0	0	0	19.5	19.1
France	10.1	11.6	79.4	77.4	20.6	22.6	15.5	15.8	0	0	94.3	95.1
Gabon	2.9	3.7	40.5	52.8	59.5	47.2	5.3	7.2	2.3	1.2	14.5	27.1
Gambia	3.6	6.2	34.2	60.0	65.8	40.0	12.4	19.1	40.7	0	0	0
Georgia ^g	6.9	9.2	17.0	18.0	83.0	82.0	6.9	5.2	1.2	3.0	46.0	68.8
Germany	10.4	11.3	79.5	76.7	20.5	23.3	18.3	19.3	0	0	87.3	88.8
Ghana ^a	3.0	5.2	50.0	68.3	50.0	31.7	7.8	10.6	14.8	11.8	0	22.2
Greece	7.9	9.3	60.0	67.1	40.0	32.9	10.1	11.7	0	0	45.9	57.8
Grenada	6.6	6.2	52.0	47.2	48.0	52.8	13.2	9.0	0	0.7	0	0.6

WHO World Health Statistics 2015

2012 Data



WHO Global Health Expenditure Atlas 2014

*Thank
you*

