BRIEF INFO ON MATERNAL DEATH 2016

NATIONAL TECHNICAL COMMITTEE CONFIDENTIAL ENQUIRIES INTO MATERNAL DEATHS

Coordinated by:
FAMILY HEALTH DEVELOPMENT DIVISION
MINISTRY OF HEALTH MALAYSIA

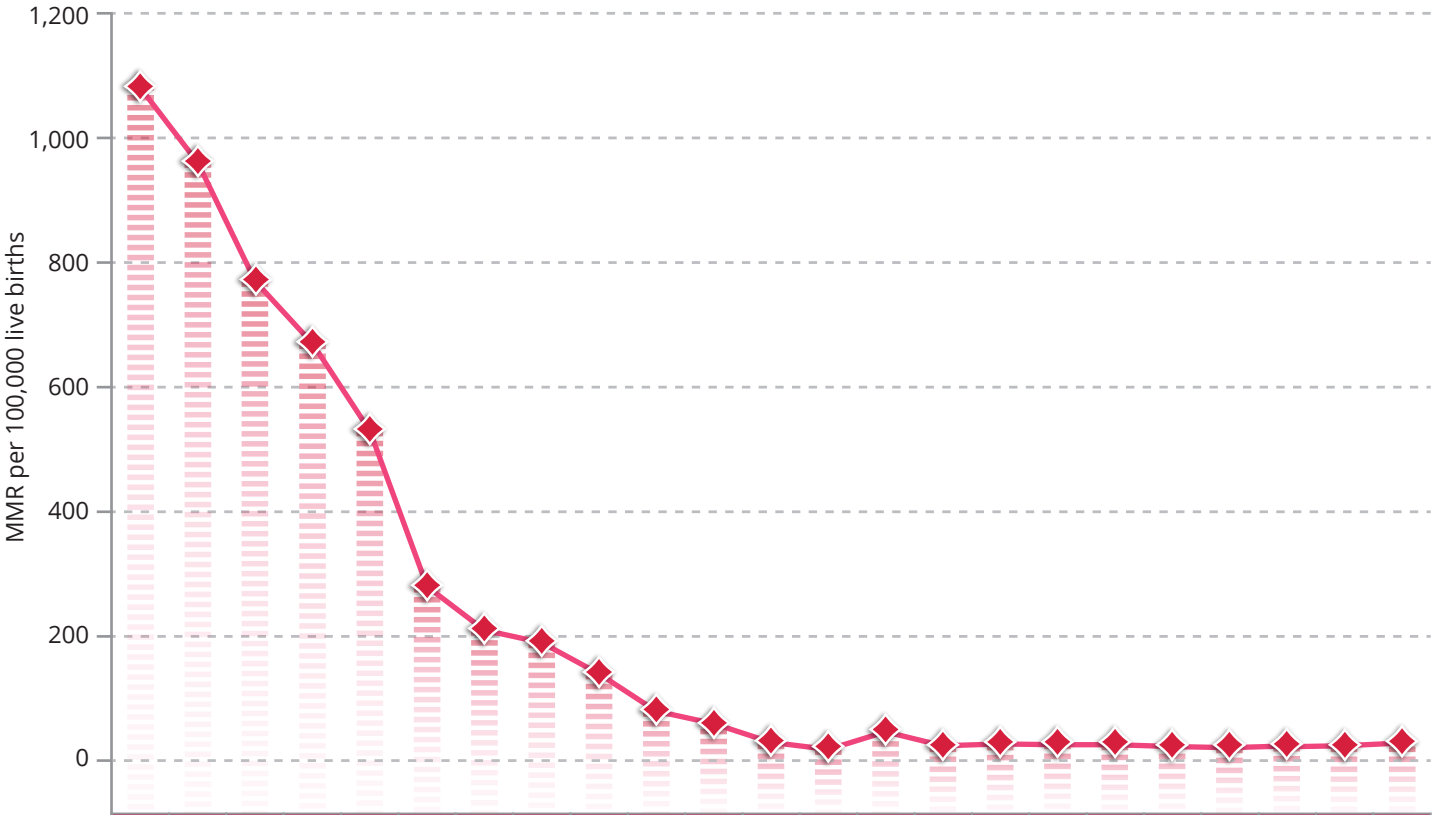
Introduction

A total of 302 pregnancy related deaths were reported and audited by the National Committee on the Confidential Enquiries Into Maternal Deaths (CEMD) for the year 2016. Overall, the number of pregnancy related deaths has declined from 266 in 2011 to 242 in 2012 and 238 in 2013. However, in year 2014, the number of pregnancy related deaths reported has increased to 277, then slightly declined to 274 in 2015 and has increased tremendously to 302 in 2016.

- **For statistical reporting in Malaysia, maternal deaths comprised all direct and indirect deaths among Malaysian citizens and non Malaysian citizen with legal document.**

Disclaimer:
The data on number of maternal deaths and ratio may subject to change as current data is from Family Health Development Division, Ministry of Health while the final official data source is from Department of Statistic, Malaysia.

Figure 1.1: Maternal Mortality Ratio (MMR) Malaysia, 1933–2016



	1933	1935	1940	1946	1950	1957	1963	1965	1970	1975	1980	1985	1990	1995	2000	2005	2010	2011	2012	2013	2014	2015	2016
MMR	1,080	960	770	670	530	280	210	190	140	80.0	60.0	30.0	18.6	46.9	24.4	27.4	26.1	26.2	23.2	21.4	22.3	23.8	29.1

Source of data:
Department of Statistics, Malaysia 2017.
Family Health Development Division, Ministry of Health.

Definitions

- **PREGNANCY RELATED DEATH**
  The death of a woman while pregnant or within 42 days of termination of pregnancy, regardless of the classification cause of death (direct, indirect and fortuitous).

- **MATERNAL DEATH**
  The death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of duration and site of pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes.

Table 1.1: Number of pregnancy related deaths, 2010–2016

YEAR	2010	2011	2012	2013	2014	2015	2016
Number of pregnancy related deaths	273	266	242	238	277	274	302

Table 1.2: Pregnancy related deaths by citizenship status, 2016

Citizenship Status	2016	
	n	%
Malaysian citizens	200	66.2
Non citizens (with legal document)	60	19.9
Non citizens (without legal document)	42	13.9
Total	302	100.0

Table 1.3: Classification of pregnancy related deaths, 2016

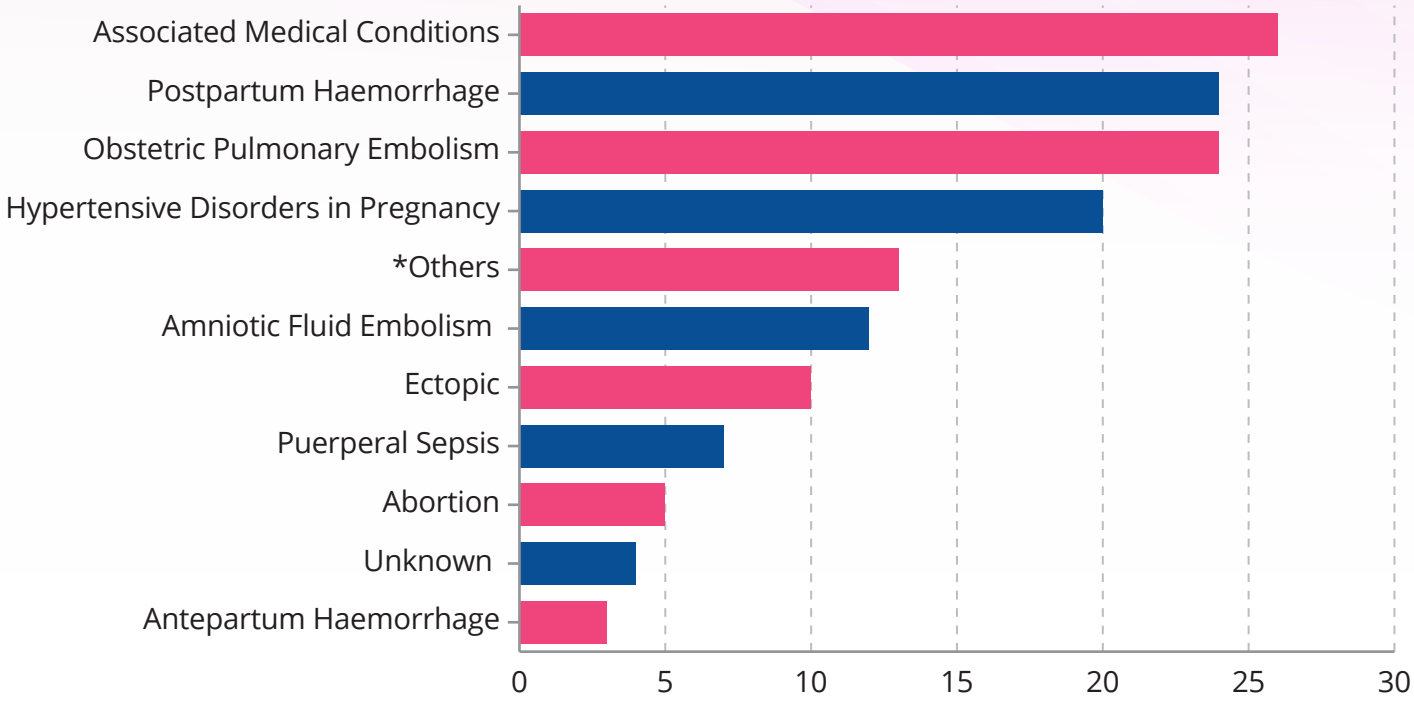
Classification	2016	
	n	%
Direct	148	49.0
Indirect	28	9.3
Fortuitous	126	41.7
Total	302	100.0

Table 1.4 : Classification of maternal deaths in Malaysia 2016 (among citizens and non citizens with legal document)

Classification	2016	
	n	%
Direct	121	81.8
Indirect	27	18.2
Total	148	100.0

Source of data: Family Health Development Division, Ministry of Health.

Figure 1.2: Causes of maternal deaths : Malaysia 2016

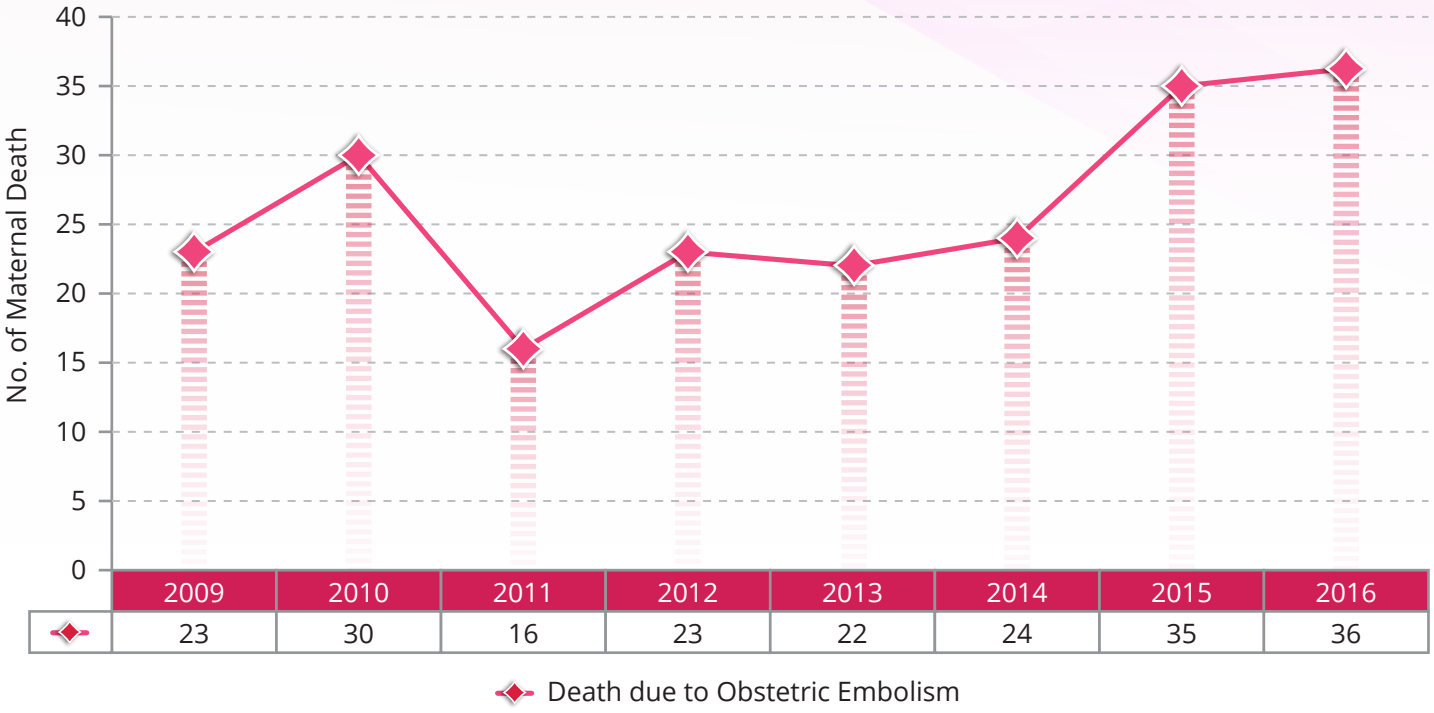


CAUSES	2016
	n
Associated Medical Conditions	26
Postpartum Haemorrhage	24
Obstetric Pulmonary Embolism	24
Hypertensive Disorders in Pregnancy	20
*Others	13
Amniotic Fluid Embolism	12
Ectopic	10
Puerperal Sepsis	7
Abortion	5
Unknown	4
Antepartum Haemorrhage	3
Total	148

**Others: Malignancy, Motor Vehicle Accident, Death Related Injuries & Suicide.*

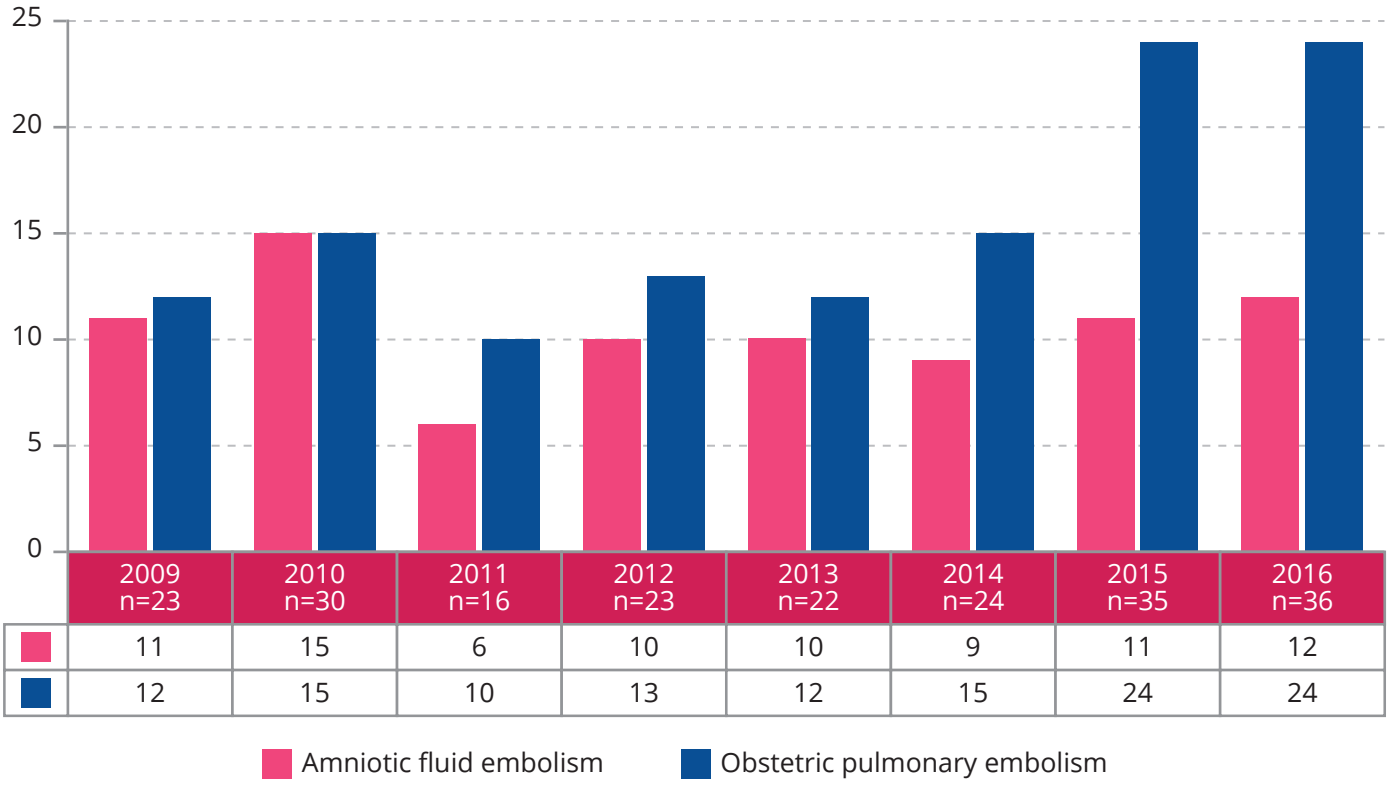
Source of data: Family Health Development Division, Ministry of Health.

Figure 1.3 : Number of maternal deaths due to obstetric embolism, 2009-2016



	2009	2010	2011	2012	2013	2014	2015	2016
Death due to Obstetric Embolism	23	30	16	23	22	24	35	36

Figure 1.4 : Number of maternal deaths due to obstetric embolism by type of emboli, 2009-2016



	2009 n=23	2010 n=30	2011 n=16	2012 n=23	2013 n=22	2014 n=24	2015 n=35	2016 n=36
Amniotic fluid embolism	11	15	6	10	10	9	11	12
Obstetric pulmonary embolism	12	15	10	13	12	15	24	24

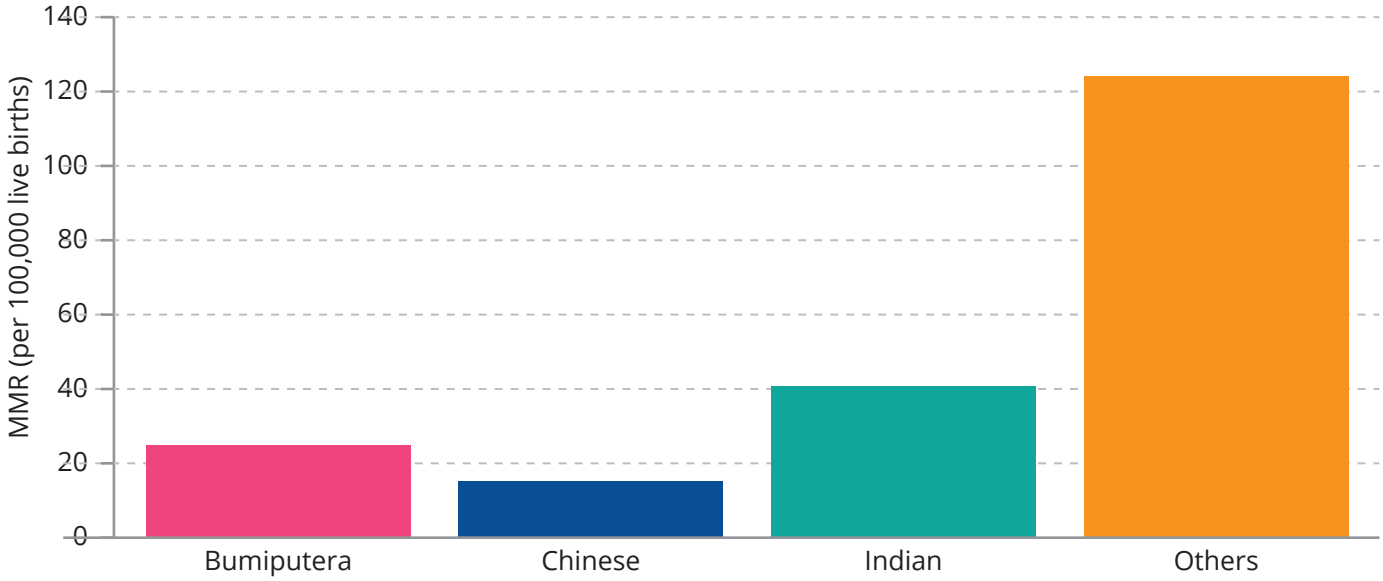
Source of data:
Report On Confidential Inquiries Into Maternal Deaths In Malaysia: 2009-2011 & 2012-2014
Family Health Development Division, Ministry of Health.

Table 1.5 : Age specific MMR, 2016

Age group	2016		
	n	Live births 2016	MMR (per 100,000 live births)
15-19	8	13,847	57.8
20-24	16	72,129	22.2
25-29	38	164,325	23.1
30-34	31	158,620	19.5
35-39	36	78,441	45.9
40-44	16	18,789	85.2
45-49	3	1,390	215.8

Source of data:
Family Health Development Division, Ministry of Health
Department of Statistic Malaysia, 2017.

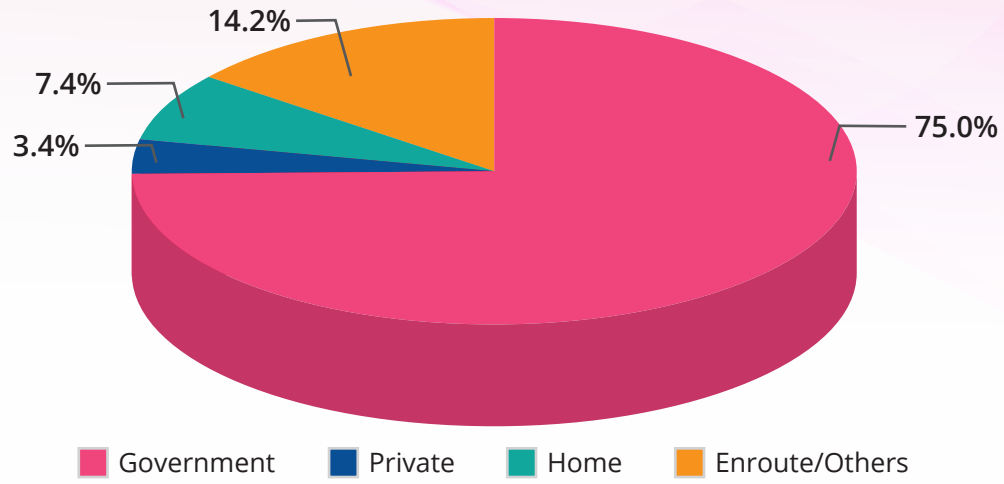
Figure 1.5: MMR by ethnicity: Malaysia 2015



Ethnic	2016	
	n	MMR (per 100,000 live births)
Bumiputera	98	24.8
Chinese	10	15.2
Indian	9	40.8
Others	31	124.2

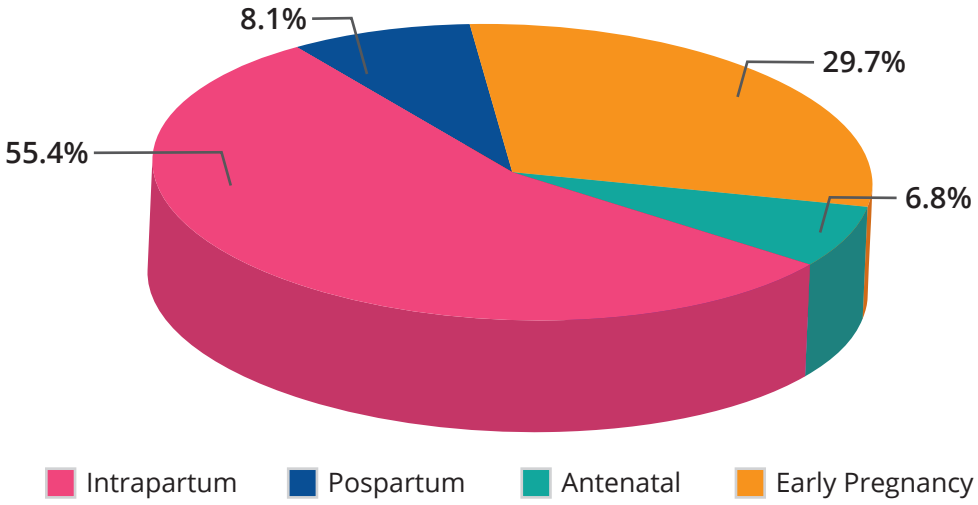
Source of data:
Family Health Development Division, Ministry of Health
Department of Statistic, Malaysia 2017.

Figure 1.6: Maternal death by place of death, 2016



Place of Death	2016	
	n	%
Government	111	75.0
Private	5	3.4
Home	11	7.4
Enroute/Others	21	14.2
Total	**148**	**100.0**

Figure 1.7: Maternal death by stage of pregnancy, 2016

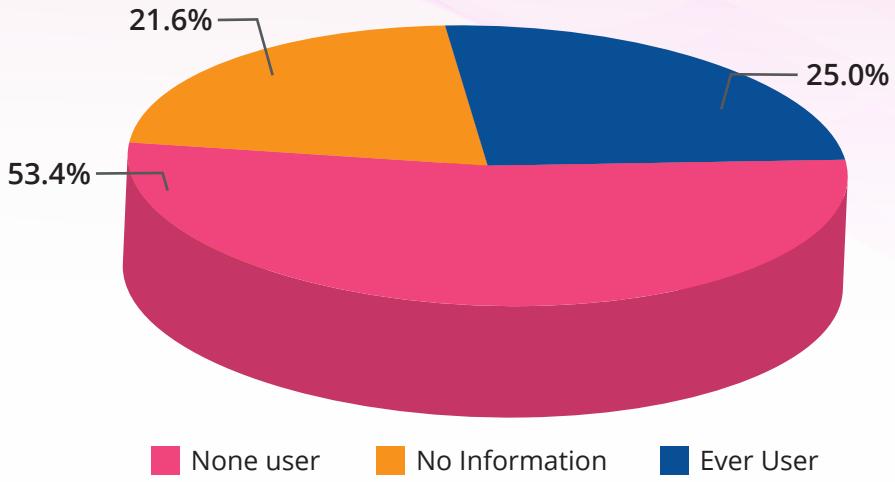


Stage of Pregnancy	2016	
	n	%
Early Pregnancy	44	29.7
Antenatal	10	6.8
Intrapartum	82	55.4
Postpartum	12	8.1
Total	**148**	**100.0**

Source of data: Family Health Development Division, Ministry of Health.

*Definition: **Early pregnancy deaths** are maternal deaths that occur in a pregnancy up to 24 weeks of gestation.*

Figure 1.8: Maternal deaths by family planning practice, 2016



Family Planning	2016	
	n	%
Ever User	37	25.0
None User	79	53.4
No Information	32	21.6
Total	**148**	**100.0**