



# MORTALITY DATA IN JORDAN 2016

National Registries for Mortality & Morbidity-Mortality Section  
Non Communicable Disease Directorate

# FOREWORD

I am very pleased to present the annual national mortality report -2016 for the Hashemite Kingdom of Jordan. This report includes epidemiological mortality data and distribution of mortality data by age group, gender, governorate and cause of death.

It is one of the greatest challenge for the ministry of health and health care sectors -policy makers and researchers to use the numbers that resulted from this report and to plan national prevention programs (as anti-smoking programs and injury prevention programs) ,health promotion activities and disease screening programs that can reduce illnesses and decrease premature mortality deaths when diagnosed and treated early as heart diseases , cancer and diabetes .

It is hoped that this report is useful and helpful to anyone who is involved in improving Jordanian health care system as well as those who form policies of disease control and prevention and health promotion

All thanks and appreciation for the employees of the directorate of non-communicable disease /national registries of mortality and all our partners from all health sectors in the Kingdom who contribute and provide the registry with data and information for the issuance of this report

God bless our dear country under the leadership of His Majesty King Abdullah II.

Minister of Health

Dr. Saad Jaber

# ACKNOWLEDGMENT

Grateful appreciation is extended to all who helped to make this report possible , Many thanks to Dr Nashaat Taani non communicable disease directorate , Dr Kamal Arqoub (Head of national registries of mortality ) and Ahlam Abu Diab (Head of mortality registry section ) for their supervision ,review, coding of data and finally analysis to release this report.

Also many thanks for the staff of mortality section: Enas Al-Haj, Rana Mohammad and Nadia Al Selwadi for their efforts for data collection and data entry.

Many thanks to focal points from all hospitals (public, private and military hospitals) and forensic medicine directorate for their cooperation. Also we are grateful to thank the role for information technology and E transformation Directorate staff for their support and maintenance of the software.

## MORTALITY DATA IN JORDAN, 2016

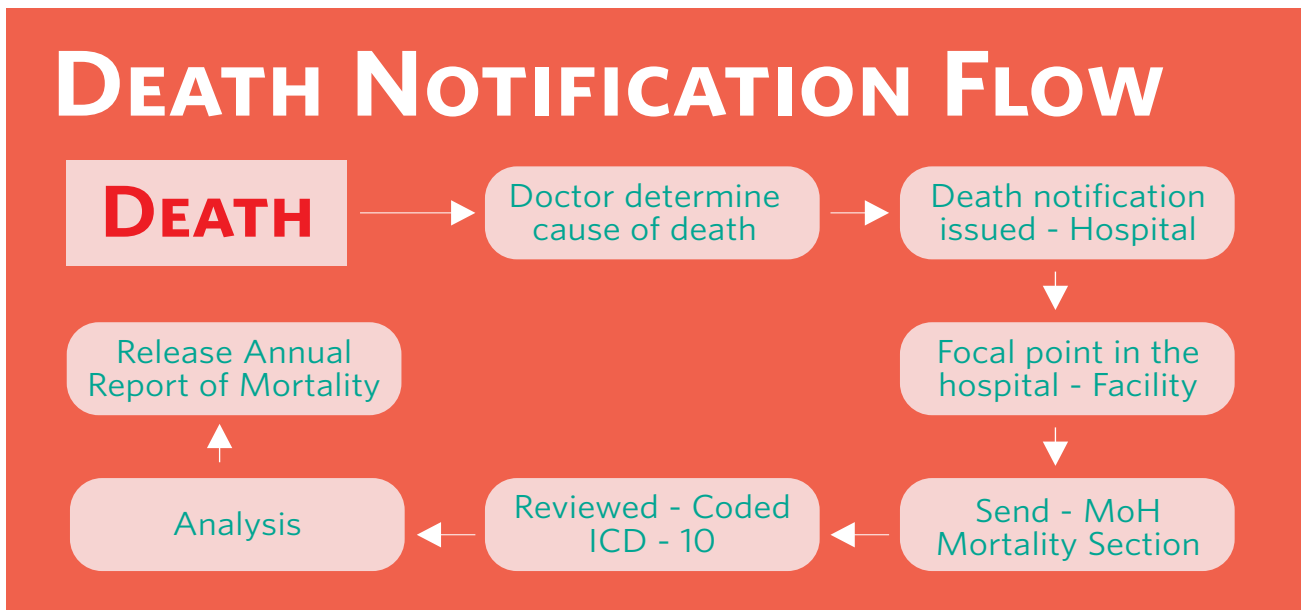
This is thirteen annual report for mortality in Jordan 2016, Non-communicable disease directorate -National registries for mortality and morbidity.

### **Methods:**

Data in this report are based on the information from death notification forms reported from the twelve governorates, this is pertain to all deaths that occurred in Jordan only (Jordanian nationality) .

Death notification forms received, reviewed and coded using International classification of disease tenth meditation (ICD-10) to choose underlying cause of death (UCOD) by well trained doctors (centrally coded). From public health point of view UCOD is the most important for policy makers and researchers to build up prevention strategies and identify priorities for actions and interventions to assist in decreasing mortality through increase awareness for risk factors (smoking, Physical inactivity, unhealthy diet) and causes of deaths through early detection of diseases as diabetes, Hypertension and cancers.

This Chart represent flow work at mortality section -NCD



### The main result of this report :

A total number of **(19,676)** deaths were received and reviewed and classified according to the international classification of diseases (ICD 10).

24474 deaths registered in civil bureau registration, Percent of completeness of this report data about 80.4%.

Percent of completeness of this report data about **80.4%** .

- Crude death rate in Jordan for the year 2016 is **2.9/1000** population.
- Age standardized mortality rate is **4.2/1000** population
- Deaths due to NCD **78%** from all total deaths.

### The top 5 leading causes of death are:

1. Circulatory system diseases **(40.4%)**: caused mainly by hypertensive diseases followed by ischemic heart diseases and cerebrovascular diseases.
2. Neoplasms **(15.7%)**: ranked as follows cancer of lung, trachea and bronchus, cancer of small intestine, colon, rectum and anus and cancer of breast.
3. External causes of mortality **(8.7%)** caused mainly by transport accidents.
4. Endocrine, nutritional and metabolic diseases **(6.9%)** caused mainly by diabetes mellitus.
5. Respiratory system disease **(6.2%)** mainly chronic respiratory disease and Pneumonia

Deaths during pregnancy delivery and puerperium about **46** deaths **(0.2%)** from total deaths.

## ملخص باللغة العربية بيانات الوفيات في الاردن - ٢٠١٦

هذا هو التقرير الثالث عشر عن الوفيات في الاردن حيث اصدار اول تقرير عن اسباب الوفيات في الاردن منذ العام ٢٠٠٤ وتم نشر هذه النشرة من خلال وزارة الصحة - مديرية الامراض غير السارية - قسم السجلات الوطنية للوفيات والامراض - شعبة الوفيات

يتضمن هذا التقرير معلومات عن توزيع حالات الوفيات حسب الفئات العمرية والجنس ومكان الوفاة (المحافظة) وحسب المجاميع المرضية للتصنيف العالمي للأمراض ICD-10

آلية العمل: يتم ارسال نسخة من نموذج تبليغ الوفيات من المستشفيات ومراكز الطب الشرعي الى وزارة الصحة - شعبة الوفيات من خلال ضابط الارتباط في المستشفى حيث يتم حفظ ومراجعة وترميز أسباب الوفيات من خلال كادر متخصص مدرب على الترميز العالمي للأمراض وللوفيات ثم يتم ادخال البيانات من خلال برنامج الكتروني محوسب ويتم تحليل وإصدار التقرير السنوي لأسباب الوفيات في الأردن للعام ٢٠١٦

تم استلام ١٩,٦٧٦ نموذج تبليغ وفاة في العام ٢٠١٦ وتمت مراجعة النماذج وترميزها حسب التصنيف العالمي للأمراض عدد حالات الوفيات المسجلة للأردنيين في دائرة الاحوال المدنية ٢٤٤٧٤ حالة واقعة وفاة حصلت داخل الأردن. نسبة اكتمال البيانات ٨٠,٤%

معدل الوفيات الخام ٢,٩ / ١٠٠٠٠ من السكان

معدل الوفيات المعايير ٤,٢ / ١٠٠٠٠

نسبة الوفيات بسبب الامراض غير السارية ٧٨% من مجموع اسباب الوفيات في الاردن

وكان أكثر خمس أسباب رئيسية للوفيات وحسب المجاميع المرضية المحددة كالتالي:

١. أمراض الجهاز الدوراني والوعائي (٤,٤%) وأهم الأمراض كان ارتفاع ضغط الدم وأمراض القلب الافتقارية وأمراض الدماغ الوعائية

٢. الأورام والسرطان (١٥,٧%): أهمها سرطان الرئة وسرطانات القولون والمستقيم والثدي

٣. الأسباب الخارجية للوفاة بنسبة (٨,٧%): أهمها حوادث السير

٤. أمراض الغدد الصماء بنسبة (٦,٩%): أهم الأمراض هو السكري ومضاعفاته

٥. أمراض الجهاز التنفسي بنسبة (٦,٢%): أهمها أمراض الرئة المزمنة والالتهاب الرئوي

وفيات الامهات خلال فترة الحمل او الولادة أو النفاس عدد ٤٦ حالة وفاة (٠,٢%) من مجموع الوفيات

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**Table (1) Number and percentage of deaths by cause of death according to ICD-10, Jordan, 2016**

Cause of death	Frequency	Percent
Diseases of the circulatory system	7957	40.40
Neoplasms	3084	15.70
External causes of mortality	1719	8.70
Endocrine, nutritional and metabolic diseases	1349	6.90
Diseases of the respiratory system	1216	6.20
Certain conditions originating in the perinatal period	761	3.90
Congenital malformations	695	3.50
Diseases of the genitourinary system	682	3.50
Diseases of the digestive system	584	3.00
Certain infectious and parasitic diseases	573	2.90
Diseases of the nervous system	353	1.80
Symptoms and signs not elsewhere classified	481	2.40
Diseases of blood and blood forming organs	92	0.50
Pregnancy, childbirth and the puerperium	46	0.20
Diseases of skin and subcutaneous tissue	40	0.20
Diseases of the musculoskeletal system & connective tissue	38	0.20
Mental and behavioral disorders	6	0.02
<b>Total</b>	<b>19676</b>	<b>100</b>

**Table (2) Number of Male deaths by cause of death according to ICD-10, Jordan 2016**

Cause of death	Frequency	Percent
Diseases of the circulatory system	4491	39.92
Neoplasms	1706	15.16
External causes of mortality	1294	11.50
Diseases of the respiratory system	723	6.43
Endocrine, nutritional and metabolic diseases	694	6.17
Certain conditions originating in the perinatal period	432	3.84
Diseases of the genitourinary system	405	3.60
Congenital malformations.	378	3.36
Diseases of the digestive system	320	2.84
Certain infectious and parasitic diseases	294	2.61
Symptoms, signs, not elsewhere classified	239	2.12
Diseases of the nervous system	190	1.69
Diseases of the blood and blood forming organs.	44	0.39
Diseases of the skin and subcutaneous tissue	21	0.19
Diseases of the musculoskeletal system and connective tissue	15	0.13
Mental and behavioural disorders	5	0.04
<b>Total</b>	<b>11,251</b>	<b>100</b>

**Table (3) Number of Female deaths by cause of death according to ICD-10, Jordan 2016**

Cause of death	Frequency	Percent
Diseases of the circulatory system	3466	41.14
Neoplasms	1378	16.36
Endocrine, nutritional and metabolic diseases	655	7.77
Diseases of the respiratory system	493	5.85
External causes of mortality	425	5.04
Certain conditions originating in the perinatal period	329	3.91
Congenital malformations.	317	3.76
Certain infectious and parasitic diseases	279	3.31
Diseases of the genitourinary system	277	3.29
Diseases of the digestive system	264	3.13
Symptoms, signs, not elsewhere classified	242	2.87
Diseases of the nervous system	163	1.93
Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism	48	0.57
Pregnancy, childbirth and the puerperium	46	0.55
Diseases of the musculoskeletal system and connective tissue	23	0.27
Diseases of the skin and subcutaneous tissue	19	0.23
Mental and behavioural disorders	1	0.01
<b>Total</b>	<b>8425</b>	<b>100</b>

**Table (4) Number of deaths by cause of death and agegroup Jordan, 2016**

Cause of death	Under 1 year	1-4	5-14	15-24	25-44	45-64	65 Year	Unknown	Total
Certain infectious and parasitic diseases	50	11	7	16	32	107	350	0	573
Neoplasms	8	20	54	69	347	1091	1495	0	3084
Diseases of the blood and blood forming organs.	9	2	7	9	21	19	25	0	92
Endocrine, nutritional and metabolic diseases	25	19	6	15	42	345	897	0	1349
Mental and behavioural disorders	0	1	2	0	1	1	1	0	6
Diseases of the nervous system	38	36	59	64	84	43	29	0	353
Diseases of the circulatory system	3	3	11	31	365	2077	5467	0	7957
Diseases of the respiratory system	113	35	26	35	102	240	665	0	1216
Diseases of the digestive system	8	6	4	15	52	157	342	0	584
Diseases of the skin and subcutaneous tissue	0	0	0	1	5	5	29	0	40
Diseases of the musculoskeletal system and connective tissue	1	0	1	1	12	8	15	0	38
Diseases of the genitourinary system	0	3	7	21	53	181	417	0	682
Pregnancy, childbirth and the puerperium	0	0	0	9	37	0	0	0	46
Perinatal period disorders.	761	0	0	0	0	0	0	0	761
Congenital malformations.	531	83	37	25	14	5	0	0	695
Symptoms & signs not elsewhere classified.	9	1	2	0	5	18	446	0	481
External causes of mortality	50	152	142	364	534	274	161	42	1719
<b>Total</b>	<b>1606</b>	<b>372</b>	<b>365</b>	<b>675</b>	<b>1706</b>	<b>4571</b>	<b>10339</b>	<b>42</b>	<b>19676</b>



**Table ( 5) Number of deaths by cause of death and governorate, Jordan,2016**

<b>Cause of death</b>	<b>Amman</b>	<b>Balqa</b>	<b>Zarqa</b>	<b>Madaba</b>	<b>Irbid</b>	<b>Mafraq</b>	<b>Jerash</b>	<b>Ajloun</b>	<b>Tafilah</b>	<b>Aqaba</b>	<b>Karak</b>	<b>Maan</b>	<b>Total</b>
<b>Diseases of the circulatory system</b>	<b>3889</b>	<b>281</b>	<b>1196</b>	<b>134</b>	<b>1598</b>	<b>92</b>	<b>107</b>	<b>173</b>	<b>82</b>	<b>126</b>	<b>229</b>	<b>50</b>	<b>573</b>
<b>Neoplasms</b>	<b>2173</b>	<b>39</b>	<b>191</b>	<b>26</b>	<b>441</b>	<b>23</b>	<b>23</b>	<b>35</b>	<b>15</b>	<b>28</b>	<b>72</b>	<b>18</b>	<b>3084</b>
<b>External causes of mortality</b>	<b>779</b>	<b>91</b>	<b>191</b>	<b>80</b>	<b>332</b>	<b>40</b>	<b>31</b>	<b>11</b>	<b>27</b>	<b>38</b>	<b>47</b>	<b>52</b>	<b>92</b>
<b>Endocrine, nutritional and metabolic diseases</b>	<b>634</b>	<b>31</b>	<b>169</b>	<b>15</b>	<b>380</b>	<b>12</b>	<b>18</b>	<b>25</b>	<b>16</b>	<b>14</b>	<b>29</b>	<b>6</b>	<b>1349</b>
<b>Diseases of the respiratory system</b>	<b>662</b>	<b>27</b>	<b>146</b>	<b>23</b>	<b>243</b>	<b>12</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>19</b>	<b>39</b>	<b>7</b>	<b>6</b>
<b>Perinatal period disorders</b>	<b>542</b>	<b>23</b>	<b>30</b>	<b>4</b>	<b>67</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>79</b>	<b>2</b>	<b>353</b>
<b>Congenital malformations</b>	<b>496</b>	<b>10</b>	<b>48</b>	<b>2</b>	<b>97</b>	<b>1</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>8</b>	<b>19</b>	<b>4</b>	<b>7957</b>
<b>Diseases of the genitourinary system</b>	<b>401</b>	<b>9</b>	<b>97</b>	<b>6</b>	<b>123</b>	<b>6</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>10</b>	<b>17</b>	<b>3</b>	<b>1216</b>
<b>Diseases of the digestive system</b>	<b>350</b>	<b>10</b>	<b>54</b>	<b>7</b>	<b>118</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>9</b>	<b>20</b>	<b>3</b>	<b>584</b>
<b>Certain infectious and parasitic diseases</b>	<b>302</b>	<b>4</b>	<b>48</b>	<b>3</b>	<b>167</b>	<b>4</b>	<b>3</b>	<b>7</b>	<b>4</b>	<b>14</b>	<b>16</b>	<b>1</b>	<b>40</b>
<b>Symptoms, signs not elsewhere classified</b>	<b>178</b>	<b>15</b>	<b>39</b>	<b>1</b>	<b>201</b>	<b>1</b>	<b>20</b>	<b>6</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>4</b>	<b>38</b>
<b>Diseases of the nervous system</b>	<b>154</b>	<b>13</b>	<b>66</b>	<b>6</b>	<b>81</b>	<b>2</b>	<b>9</b>	<b>5</b>	<b>6</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>682</b>
<b>Diseases of the nervous system</b>	<b>60</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>20</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>46</b>
<b>Pregnancy, childbirth and the puerperium</b>	<b>26</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>761</b>
<b>Diseases of the skin and subcutaneous tissue</b>	<b>21</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>695</b>
<b>Diseases of the musculoskeletal system</b>	<b>22</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>0</b>	<b>481</b>
<b>Mental and behavioural disorders</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1719</b>
<b>Total</b>	<b>10693</b>	<b>557</b>	<b>2294</b>	<b>309</b>	<b>3891</b>	<b>200</b>	<b>239</b>	<b>288</b>	<b>176</b>	<b>282</b>	<b>596</b>	<b>151</b>	<b>19676</b>

**Table (6) Number of deaths from selected causes by age groups: Jordan,2016**

<b>Cause of death</b>	<b>under 1 year</b>	<b>1-4 years</b>	<b>5-14 years</b>	<b>15-24 years</b>	<b>25-44 years</b>	<b>45-64 years</b>	<b>65 years and over</b>	<b>Unknown</b>	<b>Total</b>
<b>Certain infectious and parasitic diseases (A00-B99)</b>	<b>50</b>	<b>11</b>	<b>7</b>	<b>16</b>	<b>32</b>	<b>107</b>	<b>350</b>	<b>0</b>	<b>573</b>
Intestinal infectious diseases (A00-A09)	3	1	0	0	1	3	9	0	17
Tuberculosis (A15-A19)	0	0	0	1	1	2	5	0	9
Septicaemia (A40-A41)	46	9	7	12	22	74	317	0	487
Viral hepatitis (B15-B19)	0	0	0	1	4	26	16	0	47
Human immunodeficiency virus (HIV) disease (B20-B24)	0	0	0	0	2	0	0	0	2
Malaria (B50-B54)	0	0	0	0	1	0	0	0	1
Other and unspecified infectious and parasitic diseases ( A20-A38,A42-A79,A90-B09,B25-B49,B55-B99)	1	1	0	2	1	2	3	0	10
<b>Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism(D50-D89)</b>	<b>9</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>21</b>	<b>19</b>	<b>25</b>	<b>0</b>	<b>92</b>
Anaemias (D50-D64)	1	0	4	3	9	4	15	0	36
Other diseases of blood and blood forming organs and certain disorders involving the immune mechanism (D65-D89)	8	2	3	6	12	15	10	0	56
<b>Endocrine,nutritional and metabolic diseases (E00-E89)</b>	<b>25</b>	<b>19</b>	<b>6</b>	<b>15</b>	<b>42</b>	<b>345</b>	<b>897</b>	<b>0</b>	<b>1349</b>
Disorders of thyroid gland (E00-E07)	0	1	0	1	0	3	2	0	7
Diabetes mellitus (E10-E14)	1	1	1	8	34	338	810	0	1193
Metabolic disorders (E70--E89)	23	15	5	4	6	7	82	0	142
Other endocrine and nutritional diseases (E15-E34,E65-E68)	1	2	0	2	2	8	3	0	18
<b>Mental and behavioral disorders (F01-F99)</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>6</b>
<b>Pregnancy,childbirth and the puerperium ( O00-O99)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>46</b>
<b>Certain conditions originating in the perinatal period (P00-P96)</b>	<b>761</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>761</b>
<b>Congenital malformations,deformations and chromosomal abnormalities (Q00-Q99)</b>	<b>531</b>	<b>83</b>	<b>37</b>	<b>25</b>	<b>14</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>695</b>
<b>Symptoms,signs and abnormal clinical and laboratory findings, not elsewhere classified( R00-R99)</b>	<b>9</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>18</b>	<b>446</b>	<b>0</b>	<b>481</b>
<b>Diseases of skin and subcutaneous tissue (L00-L98)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>5</b>	<b>29</b>	<b>0</b>	<b>40</b>

Cause of death	under 1 year	1-4 years	5-14 years	15-24 years	25-44 years	45-64 years	65 years and over	Unknown	Total
<b>Neoplasms (C00-D48)</b>	<b>8</b>	<b>20</b>	<b>54</b>	<b>69</b>	<b>347</b>	<b>1091</b>	<b>1495</b>	<b>0</b>	<b>3084</b>
Malignant neoplasms ( C00-C97)	3	13	0	65	323	1046	1432	0	2882
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	0	0	0	1	2	11	10	0	24
Malignant neoplasm of oesophagus (C15)	0	0	0	0	2	5	12	0	19
Malignant neoplasm of stomach (C16)	0	0	0	1	23	48	54	0	126
Malignant neoplasms of small intestine,colon,rectum and anus (C17-C21)	0	0	0	1	36	120	150	0	307
Malignant neoplasms of liver and intrahepatic bile ducts (C22)	0	0	2	0	8	38	62	0	110
Malignant neoplasm of pancreas (C25)	0	0	0	1	12	59	73	0	145
Malignant neoplasm of larynx (C32)	0	0	0	1	1	21	24	0	47
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	0	0	0	1	28	183	253	0	465
Malignant melanoma of skin (C43)	0	0	0	0	1	1	1	0	3
Malignant neoplasm of breast (C50)	0	0	0	0	57	150	105	0	312
Malignant neoplasm of cervix uteri (C53)	0	0	0	0	1	5	4	0	10
Malignant neoplasms of corpus uteri and uterus , part unspecified (C54-C55)	0	0	0	1	3	23	29	0	56
Malignant neoplasm of ovary ( C 56)	0	0	0	0	4	17	27	0	48
Malignant neoplasm of prostate (C61)	0	0	0	0	0	14	88	0	102
Malignant neoplasms of kidney and renal pelvis (C64-C65)	0	1	1	1	3	10	23	0	39
Malignant neoplasm of bladder (C67)	0	0	0	1	4	16	69	0	90
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	1	1	9	2	26	35	40	0	114
Thyroid gland	0	0	0	0	0	6	9	0	15
Unknown primary	0	0	3	6	31	107	142	0	289
Hodgkin's disease (C81)	0	0	0	1	1	0	2	0	4
Non-Hodgkin's lymphoma (C82-C85)	0	2	1	16	24	37	52	0	132
Multiple myeloma	0	0	0	0	3	8	19	0	30
Leukaemia(C91-C95)	1	6	9	18	34	50	74	0	192
Others and unspecified malignant neoplasms(C23-24,C26-31,C37-41,C44-49,C51-52, C57-60,C62-63,C66,C68-69,C73-80,C88-90,	1	3	8	13	22	122	110	0	279
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behaviour (D00-D48)	5	7	21	4	21	45	63	0	166

Cause of death	under 1 year	1-4 years	5-14 years	15-24 years	25-44 years	45-64 years	65 years and over	Unknown	Total
<b>Diseases of the nervous system (G00-G98)</b>	<b>38</b>	<b>36</b>	<b>59</b>	<b>64</b>	<b>84</b>	<b>43</b>	<b>29</b>	<b>0</b>	<b>353</b>
Meningitis (G00-G03)	10	6	6	4	8	7	6	0	47
Parkinson's disease (G20-G21)	0	0	0	0	0	1	2	0	3
Alzheimer's disease (G30)	0	0	0	0	0	2	5	0	7
Cerebral palsy and other paralytic syndromes (G80-G83)	15	19	49	41	43	6	2	0	175
Other diseases of the nervous system (G04-G12,G23-G25,G31-G72,G90-G98)	13	11	4	19	33	27	14	0	121
<b>Diseases of the circulatory system (I00-I99)</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>31</b>	<b>365</b>	<b>2077</b>	<b>5467</b>	<b>0</b>	<b>7957</b>
Acute rheumatic fever and chronic rheumatic heart diseases (I00-I09)	0	0	0	0	0	2	1	0	3
Hypertensive diseases (I10-I15)	0	0	2	4	29	547	1738	0	2320
Ischaemic heart diseases (I20-I25)	0	0	1	5	170	746	1079	0	2001
Acute myocardial infarction (I21-I22)	0	0	1	5	116	489	609	0	1220
Other ischaemic heart diseases (I20,I23-I25)	0	0	0	0	54	257	470	0	781
Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)	0	0	1	2	32	30	51	0	116
Heart failure (I50)	0	0	0	4	38	198	683	0	923
Other forms of heart disease (I30-I49,I51)	0	0	2	8	23	108	157	0	298
Cerebrovascular diseases (I60-I69)	3	3	4	7	62	415	1705	0	2199
Atherosclerosis (I70)	0	0	0	0	0	7	16	0	23
Aortic aneurysm and dissection and other aneurysms (I71-I72)	0	0	1	0	4	13	14	0	32
Other diseases of the circulatory system (I73-I99)	0	0	0	1	6	11	22	0	40
<b>Diseases of the musculoskeletal system and connective tissue (M00-M99)</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>12</b>	<b>8</b>	<b>15</b>	<b>0</b>	<b>38</b>
Systemic lupus erythematosus (M32)	0	0	1	0	12	4	4	0	21
Other diseases of the musculoskeletal system and connective tissue (M00-M31,M33-M99)	1	0	0	1	0	4	11	0	17

Cause of death	under 1 year	1-4 years	5-14 years	15-24 years	25-44 years	45-64 years	65 years and over	Unknown	Total
<b>Diseases of the respiratory system (J00-J98)</b>	<b>113</b>	<b>35</b>	<b>26</b>	<b>35</b>	<b>102</b>	<b>240</b>	<b>665</b>	<b>0</b>	<b>1216</b>
Influenza and pneumonia (J09-J18)	109	33	22	25	78	114	313	0	694
Influenza (J09-J11)	0	1	0	0	14	10	7	0	32
Pneumonia (J12-J18)	0	32	22	25	64	104	306	0	553
Chronic lower respiratory diseases (J40-J47)	0	1	3	2	13	65	202	0	286
Bronchitis, chronic and unspecified (J40-J42)	0	0	0	0	0	5	6	0	11
Emphysema (J43)	0	1	0	0	2	0	0	0	3
Asthma (J45-J46)	0	0	3	2	2	11	35	0	53
Other chronic lower respiratory diseases (J44.J47)	0	0	0	0	9	49	161	0	219
Lung diseases due to external agents (J60-J70)	3	1	0	0	1	0	3	0	8
Other diseases of respiratory system (J00-J06,J30-J39,J80-J98)	1	0	1	8	10	61	147	0	228
<b>Diseases of the genitourinary system (N00-N99)</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>21</b>	<b>53</b>	<b>181</b>	<b>417</b>	<b>0</b>	<b>682</b>
Glomerular diseases ( N00-N07)	0	1	0	0	0	0	0	0	1
Renal failure (N17-N19)	0	2	7	21	52	173	382	0	637
Hyperplasia of prostate (N40)	0	0	0	0	0	0	1	0	1
Other diseases of the genitourinary system (N10-N15,N20-N39,N41-N64,N80-N99)	0	0	0	0	1	8	34	0	43
<b>Diseases of the digestive system (k00-k92)</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>15</b>	<b>52</b>	<b>157</b>	<b>342</b>	<b>0</b>	<b>584</b>
Oesophagitis and other diseases of oesophagus (K20-K22)	0	0	0	0	1	0	0	0	1
Peptic ulcer (K25-K28)	0	0	0	0	3	2	9	0	14
Diseases of the liver (K70-K76)	3	5	2	7	22	78	98	0	215
Cholelithiasis and other disorders of gallbladder (K80-K82)	0	1*	0	0	0	4	11	0	15
Acute pancreatitis and other diseases of the pancreas (K85-K86)	0	0	0	2	7	6	12	0	27
Other diseases of the digestive system (K00-K14,K29-K66,K83,K90-K92)	5	0	2	6	19	67	212	0	311

Cause of death	under 1 year	1-4 years	5-14 years	15-24 years	25-44 years	45-64 years	65 years and over	Unknown	Total
<b>External causes of mortality (V01-Y98)</b>	<b>50</b>	<b>152</b>	<b>142</b>	<b>364</b>	<b>534</b>	<b>274</b>	<b>161</b>	<b>42</b>	<b>1719</b>
Accidents(V01-X59)	29	121	117	254	349	165	105	42	1182
Transport accidents (V01-V99,Y85)	8	71	68	177	240	129	76	42	811
Falls (W00-W19)	1	8	11	12	23	11	11	0	77
Accidental drowning and submersion (W65-W74)	2	14	19	14	7	3	1	0	60
Accidental exposure to smoke,fire and flames (X00-X09)	1	15	6	24	43	8	9	0	106
Accidental poisoning by and exposure to noxious substances (X40-X49)	0	1	5	9	11	4	3	0	33
Other and unspecified accidents (W20-W64,W75-W99,X10-X39,X50-X59,Y86)	11	14	8	18	25	10	5	0	91
Intentional self-harm (X60-X84,Y87.0)	0	0	2	2	7	0	0	0	11
Assault(X85-Y09,Y87.1)	0	2	4	46	74	16	10	0	152
Legal intervention	0	0	0	0	3	0	0	0	3
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	21	27	19	61	99	89	46	0	362
Complications of medical and surgical care (Y40-Y84,Y88)	0	0	0	1	2	4	0	0	7
<b>Total</b>	<b>1606</b>	<b>372</b>	<b>365</b>	<b>675</b>	<b>1706</b>	<b>4571</b>	<b>10339</b>	<b>42</b>	<b>19676</b>

**Table (7) Leading causes of infant deaths in Jordan,2016**

Cause of death	Male	Female	Total	Percent
Respiratory distress of newborn	187	139	326	20.3
congenital malformations of the circulatory system	166	121	287	17.9
Bacterial sepsis of newborn	76	64	140	8.7
Other respiratory conditions originating in the perinatal period	81	49	130	8.1
Influenza and pneumonia	54	55	109	6.8
Other congenital malformations	45	38	83	5.2
Disorders related to length of gestation and fetal malnutrition	39	31	70	4.4
External causes of mortality	22	28	50	3.1
Septicaemia	28	18	46	2.9
Intrauterine hypoxia and birth asphyxia	19	25	44	2.7
Other perinatal conditions	25	12	37	2.3
Congenital malformations of the digestive system	13	18	31	1.9
Congenital hydrocephalus	16	13	29	1.8
Others	110	114	224	13.9
<b>Total</b>	<b>881</b>	<b>725</b>	<b>1606</b>	<b>100.0</b>

**Table(8) Number of infant deaths and percent by main Disease categories Jordan,2016**

Cause of death	Male	Female	Total	%
Perinatal period disorders.	432	329	761	47.4
Congenital malformations.	289	242	531	33.1
Diseases of the respiratory system	56	57	113	7.0
External causes of mortality	22	28	50	3.1
Certain infectious and parasitic diseases	28	22	50	3.1
Diseases of the nervous system	17	21	38	2.4
Endocrine,nutritional and metabolic diseases	12	13	25	1.6
Diseases of the blood and blood forming organs.	7	2	9	0.6
Symptoms&signs not elsewhere classified.	6	3	9	0.6
Neoplasms	5	3	8	0.5
Diseases of the digestive system	5	3	8	0.5
Diseases of the circulatory system	1	2	3	0.2
Diseases of the musculoskeletal system and connective tissue	1	0	1	0.1
<b>Total</b>	<b>881</b>	<b>725</b>	<b>1606</b>	<b>100</b>

**Table (9) Distribution of male deaths due to circulatory system disease, Jordan, 2016**

Cause of death	Frequency	Percent
Ischaemic heart disease	1403	31.24
Cerebrovascular diseases	1175	26.16
Hypertensive diseases	1117	24.87
Heart failure	528	11.76
Other forms of heart disease	149	3.32
Pulmonary heart disease and diseases of pulmonary circulation	49	1.09
Aortic aneurysm and dissection and other aneurysms	27	0.60
Other diseases of the circulatory system	23	0.51
Atherosclerosis	18	0.40
Acute rheumatic fever and chronic rheumatic heart diseases	2	0.04
<b>Total</b>	<b>4491</b>	<b>100</b>

**Table (10) Distribution of female deaths due to circulatory system disease, Jordan,2016**

Cause of death	Frequency	Percent
Hypertensive diseases	1203	34.71
Cerebrovascular diseases	1024	29.54
Ischaemic heart disease	598	17.25
Heart failure	395	11.40
Other forms of heart disease	149	4.30
Pulmonary heart disease and diseases of pulmonary circulation	67	1.93
Other diseases of the circulatory system	18	0.52
Aortic aneurysm and dissection and other aneurysms	6	0.17
Atherosclerosis	5	0.14
Acute rheumatic fever and chronic rheumatic heart diseases	1	0.03
<b>Total</b>	<b>3466</b>	<b>100</b>

**Table (11) Distribution of male deaths due to neoplasms, Jordan,2016**

Cause of death	Frequency	Percent
<b>Malignant neoplasm of trachea, bronchus and lung</b>	373	21.9
<b>Malignant neoplasm of small intestine, colon, rectum and anus.</b>	172	10.1
<b>Unknown primary</b>	<b>151</b>	8.9
<b>Leukaemia</b>	104	6.1
<b>Malignant neoplasm of prostate</b>	102	6.0
<b>Malignant neoplasm of liver and intrahepatic bile ducts.</b>	93	5.5
<b>Neoplasms of uncertain or unknown behavior</b>	92	5.4
<b>Malignant neoplasm of pancreas.</b>	90	5.3
<b>Malignant neoplasm of stomach</b>	86	5.0
<b>Malignant neoplasm of bladder</b>	79	4.6
<b>Non-Hodgkin's lymphoma</b>	74	4.3
<b>Others and unspecified malignant neoplasms</b>	74	4.3
<b>Malignant neoplasm of meninges, brain and other parts of CNS</b>	58	3.4
<b>Malignant neoplasm of larynx.</b>	41	2.4
<b>Malignant neoplasm Bone</b>	28	1.6
<b>Malignant neoplasm of kidney and renal pelvis</b>	24	1.4
<b>Multiple myeloma</b>	20	1.2
<b>Malignant neoplasm of lip, oral cavity and pharynx.</b>	17	1.0
<b>Malignant neoplasm of oesophagus.</b>	16	0.9
<b>Malignant tumor of skin</b>	6	0.4
<b>Hodgkin's disease</b>	4	0.2
<b>Malignant neoplasm of breast</b>	2	0.1
<b>Total</b>	<b>1706</b>	<b>100.0</b>



**Table (12) Distribution of female deaths due to neoplasms, Jordan,2016**

<b>Cause of death</b>	<b>Frequency</b>	<b>Percent</b>
Malignant neoplasm of breast	312	22.6
Malignant neoplasm of small intestine, colon,rectum and anus.	135	9.8
Malignant neoplasm of trachea, bronchus and lung .	95	6.9
Unknown primary	142	10.3
Malignant neoplasm of oesophagus .	3	0.2
Leukaemia	81	5.9
Malignant neoplasm of pancreas.	55	4.0
Malignant neoplasm of liver and intrahepatic bile ducts.	67	4.9
Non-Hodgkin's lymphoma	69	5.0
Malignant neoplasm of uterus	56	4.1
Malignant neoplasm of ovary	48	3.5
Malignant neoplasm of stomach	40	2.9
Malignant neoplasm of meninges, brain and other parts of central nervous system	56	4.1
Multiple myeloma	10	0.7
Malignant neoplasm of lip, oral cavity and pharynx.	7	0.5
Malignant neoplasm of bladder	11	0.8
Malignant neoplasm of cervix uteri	10	0.7
Malignant neoplasm of kidney and renal pelvis	17	1.2
Malignant neoplasm of larynx.	6	0.4
Malignant neoplasm of thyroid	9	0.7
Other female genital tract	1	0.1
Others and unspecified malignant neoplasms	58	4.2
Neoplasms of uncertain or unknown behavior	70	5.1
Malignant neoplasm of Bone	20	1.5
<b>Total</b>	<b>1378</b>	<b>100.0</b>

**Table (13) Distribution of male deaths due to external causes, Jordan,2016**

<b>Cause of death</b>	<b>Frequency</b>	<b>Percent</b>
Transport accidents	640	49.5
Events of undetermined intent	254	19.6
Assault	121	9.4
Other and unspecified accidents	68	5.3
Accidental exposure to smoke,fire and flames	65	5.0
Falls	63	4.9
Accidental drowning and submersion	40	3.1
Accidental poisoning by & exposure to noxious substances	26	2.0
Intentional self-harm	9	0.7
Complications of medical and surgical care	5	0.4
Legal intervention	3	0.2
<b>Total</b>	<b>1294</b>	<b>100</b>

**Table (14) Distribution of female deaths due to external causes, Jordan, 2016**

Cause of death	Frequency	Percent
Transport accidents	171	40.2
Events of undetermined intent	108	25.4
Accidental exposure to smoke, fire and flames	41	9.6
Assault	31	7.3
Other and unspecified accidents	29	6.8
Accidental drowning and submersion	20	4.7
Falls	14	3.3
Accidental poisoning by & exposure to noxious substances	7	1.6
Complications of medical and surgical care	2	0.5
Intentional self-harm	2	0.5
<b>Total</b>	<b>425</b>	<b>100</b>

full details present in national maternal report for the year 2018 with details about causes and contributing factors, recommendation and response to prevent avoidable maternal deaths.

**Table (15) Distribution of Maternal deaths by causes, Jordan, 2016**

Causes	Frequency	Percent
<b>Direct Causes:</b>	<b>32</b>	<b>69.6</b>
Obstetric embolism	12	26.1
Haemorrhage ante and post partum	7	15.2
Puerperal sepsis	5	10.9
Pre-eclampsia Eclampsia	4	8.7
Other complications of the puerperium	3	6.5
Ectopic pregnancy	1	2.2
<b>Indirect causes</b>	<b>14</b>	<b>30.4</b>
Other specified diseases complicating pregnancy, childbirth and the puerperium	8	17.4
Cardiomyopathy in the puerperium	3	6.5
Diseases of the circulatory system complicating pregnancy, childbirth and the puerperium	3	6.5
<b>Total</b>	<b>46</b>	<b>100</b>



Important point: this Maternal mortality basic data for the year 2016 as received to MOH -mortality section (Annual report) although we are establishing Maternal mortality surveillance system begin in the year 2018 full details will be in national maternal report for the year 2018 with details about causes and contributing factors recommendation and response.

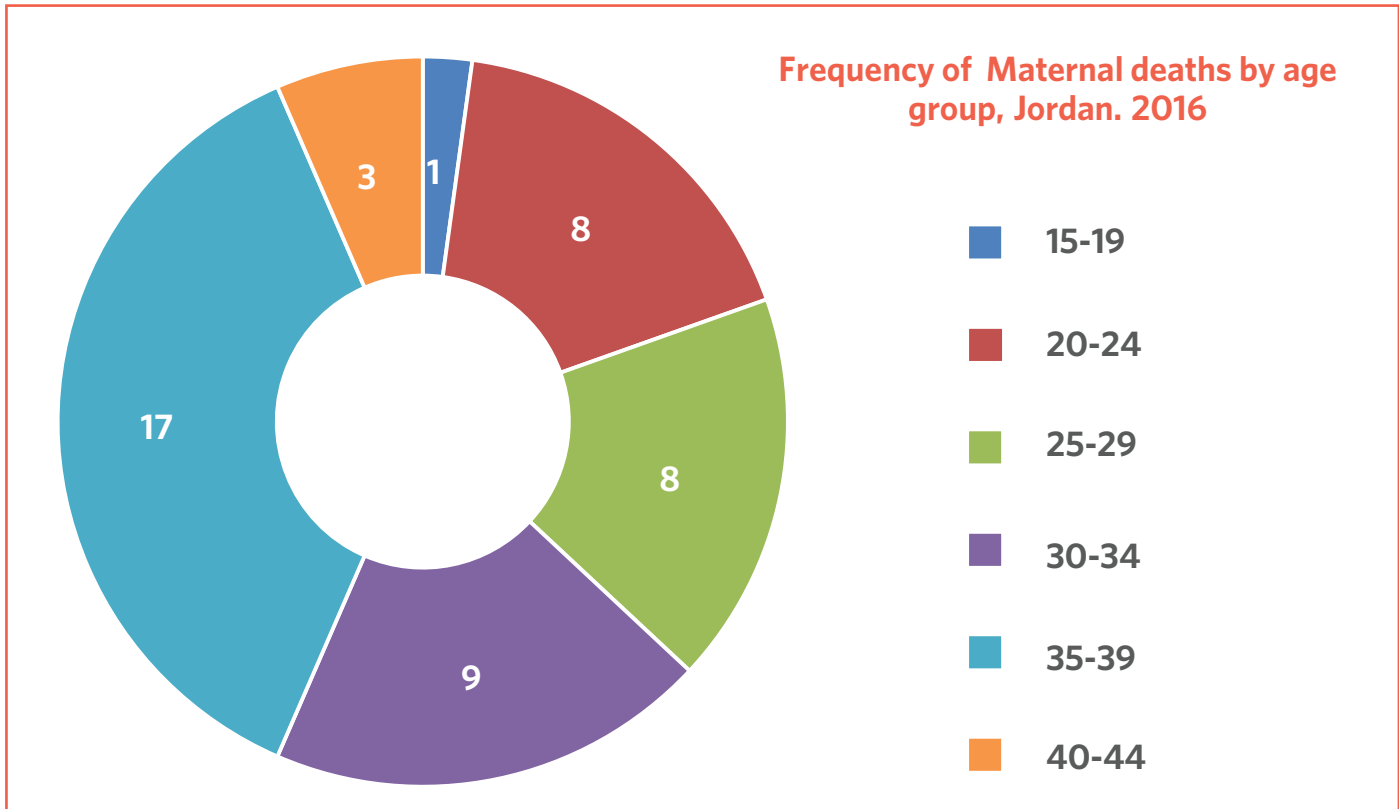


Figure (2)

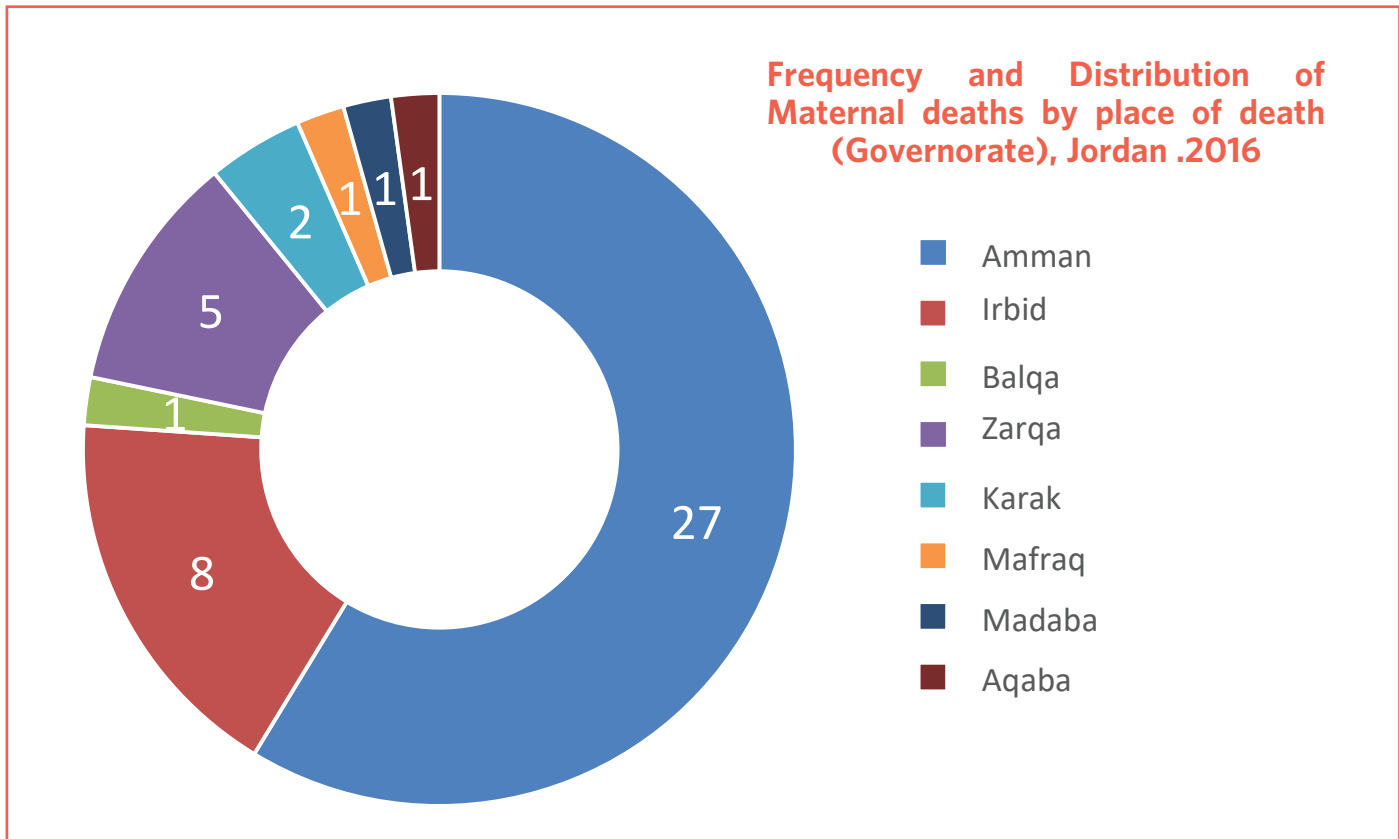


Figure (3)



وزارة الصحة



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