

# Guidance note: Health

## Background

- All provided prices are derived from Jordan Ministry of Health (MoH) prices at the non-insured Jordanian rate.
- The non-insured Jordanian rate is the rate that average Jordanians without civil insurance pay when they access MoH services at all levels.
- As of November 2014, Government of Jordan allowed all Syrians with valid documents to access MOH services at the non-insured Jordanian rate.

## Average health costs per person per month

- The average overall Healthcare expenditure has marginally **increased by 0.63 JOD** per capita from 2016.
- The average cost of Primary healthcare **increased by 0.30 JOD** per capita, from 2.50 JOD to 2.80 JOD.
- The average cost of Secondary healthcare **increased by 0.27 JOD** per capita, from 0.40 JOD to 0.67 JOD.
- The average cost of Tertiary healthcare **remained the same** since 2016.
- The average cost of Deliveries **increased by 0.60 JOD** per capita, from 0.39 JOD to 0.45 JOD.
- The average cost of Baby kits **increased by 0.01 JOD** per capita, from 0.05 JOD to 0.06 JOD.

## Summary

*Table 1: 2017 Health MEB*

Family size	1	2	3	4	5	6	7+
<b>Average cost</b>	5.19	9.12	13.06	17.00	20.93	24.87	28.81

*Table 2: Average costs by healthcare type*

	1	2	3	4	5	6	7+
Primary	2.82	5.64	8.46	11.28	14.10	16.92	19.74
Secondary	0.67	1.34	2.01	2.68	3.35	4.02	4.69
Tertiary / catastrophic	1.25	2.50	3.75	5.00	6.25	7.50	8.75
Deliveries	0.45	0.89	1.34	1.79	2.23	2.68	3.13
Baby Kit	0.06	0.11	0.17	0.22	0.28	0.33	0.39
<b>Total</b>	<b>5.24</b>	<b>10.48</b>	<b>15.73</b>	<b>20.97</b>	<b>26.21</b>	<b>31.45</b>	<b>36.69</b>

Figure 1: Changes in cost from 2016 to 2017

MEB Items	Price change (JOD)
Primary healthcare	-0.3
Secondary healthcare	-0.27
Tertiary / catastrophic healthcare	
Deliveries healthcare	-0.06
Baby Kit healthcare	-0.01
<b>HEALTH TOTAL</b>	<b>-0.63</b>

## Costs associated with accessing health care

### 1. Primary health care and secondary consultations

- 1.1. Expected number of primary health care and secondary consultations per refugee per year
- 1.2. Average costs per primary and secondary consultation
  - Including medications, doctors' fees, and radiology and laboratory investigations

### 2. Tertiary care and catastrophic

- 2.1. Expected number of hospitalizations
  - Excluding deliveries
- 2.2. Average costs per hospitalization for uninsured Jordanians
  - Including medications, doctors' fees, theatre costs, overnight stay, radiology and laboratory investigations

### 3. Deliveries

- 3.1. Expected number of deliveries for out-of-camp refugees
- 3.2. Average costs per delivery
  - Including medications, doctors' fees, theatre costs, overnight stay, radiology and laboratory investigations

## Methodology

- The 2017 Health MEB methodology has remained the same as 2016.
- Estimate the average number of health events per household at different levels.
- Estimate the average cost of each event (based on consultation fee, medications, laboratory tests and radiology etc.) and then the likelihood of high cost expenditure.
- Costs are based only on the Ministry of Health reported costs and not private care costs.
- Challenges include estimating the costs of a critical event and the average costs per household.

## Calculations

### Primary health care consultations

*Table 3: Calculation of cost per primary consultation per person per month in JOD*

Avg. consultations PPPY <sup>1</sup>	6.7
Total consultations	3,514,724
Cost per consultation	33.85
Total cost	118,958,348
Cost PPPY	226.77
<b>Cost PPM</b>	<b>18.90</b>

*Table 4: Breakdown of average cost per primary consultation in JOD*

Type	Cost *	Meds **	Lab ***	Radiology ***	Total cost	% of type	Avg. PPPY	Total cost
GP	0.40	2.23	0.63	1.20	4.46	50%	3.35	14.95
Specialist	1.65	2.44	0.63	1.20	5.92	40%	2.68	15.86
Dentist	1.10	2.23		1.20	4.53	10%	0.67	3.04
<b>Total</b>					<b>14.91</b>		<b>6.70</b>	<b>33.85</b>

\* **Cost of consultations:** GP = 0.40 JOD, Specialist = 1.65 JOD, Dentist = 1.10 JOD + 2.20 JODs for an average dental procedure

\*\* **Medication:** Cost of medication is 18.19 JOD for one month for most common medications. The average number of drugs per prescription is 1.68 drugs/ prescription. (UNHCR Rational Drug Use Assessment). 1.21 JOD on average + 10% for primary care = 1.33 JOD and + 20% for comprehensive centres and hospitals = 1.45 JOD.

\*\*\* **Laboratory tests:** (3 tests) associated with 20% of consultations (average for one test is 1.05 JODS but three tests required is 3.14bJOD).

\*\*\*\* **Radiology:** Assumes 5% of consultations = 23.57 JOD is average cost.

<sup>1</sup> Zaatari data 2016 - 2017

## Secondary care

*Table 5: Calculation of cost per secondary consultation per person per month in JOD*

	<b>Surgery</b>	<b>Medical care</b>	<b>Total</b>
Percentage of population requiring surgery <sup>2</sup>	2.70%	2.70%	<b>5.40%</b>
Total secondary care	14,164	14,164	<b>28,328</b>
Cost per care type	148.83	148.83	<b>298</b>
Total cost	2,108,000	2,108,000	<b>4,216,000</b>
Cost PPPY	4.02	4.02	<b>8.04</b>
<b>Cost PPM</b>	<b>0.33</b>	<b>0.33</b>	<b>0.67</b>

*Table 6: Breakdown of average cost per secondary consultation in JOD*

Type	Cost	Meds (avg 4)	Hospital (5 day stay)	Lab (avg 10 tests)	Radiology (avg 1 test)	Total per event per year	Total per capita per year
Surgery	90.00	9.76	15.00	10.50	23.57	148.83	4.02
Medical	90.00	9.76	15.00	10.50	23.57	148.83	4.02

## Tertiary / catastrophic care

*Table 7: Calculation of cost per tertiary consultation per person per month in JOD*

Percentage of population requiring care	1%
Total tertiary / catastrophic care	5,246
Cost per care	1,500
Total cost	7,868,784
Cost PPPY	15.00
<b>Cost PPM</b>	<b>1.25</b>

*Table 8: Breakdown of average cost per tertiary / catastrophic consultation in JOD*

Type	Cost
Tertiary / Catastrophic	1,500
<b>Total</b>	<b>1,500</b>

<sup>2</sup> Assume 2.5% will require surgery (Based on Zaatari hospitalisation rate) = 39JDs is average cost + 15 JDs hospital costs.  
 Assume 2.5% will require medical admission (based on Zaatari hospitalisation rate) = (use surgery as proxy costs)

## Deliveries

*Table 9: Calculation of cost per delivery per person per month in JOD*

	<b>Delivery</b>	<b>Baby kit</b>
Percent of population delivering <sup>3</sup>	4%	4%
Total deliveries per year	20,983	20,983
Cost per delivery	134.00	16.50
Total cost	2,811,779	346,226
Cost PPPY	5.36	0.66
<b>Cost PPPM</b>	<b>0.45</b>	<b>0.06</b>

*Table 10: Breakdown of average cost per delivery in JOD*

Type	Cost by type	Cost of baby kit	Total cost	% of delivery type	Number of deliveries	Total cost
C-section	300	16.50	316.50	27%	5,666	<b>1,793,138</b>
Normal	50	16.50	66.50	73%	15,318	<b>1,018,640</b>
<b>Total</b>					<b>20,983</b>	<b>2,811,779</b>

*Table 11: Breakdown of average cost per baby kit in JOD*

Description	Unit	Qty	Cost (JOD)
Baby blanket, 300 gsm, 75 x 50 cm (wool)	Pce	1	5.00
Baby swaddle	Pce	1	3.00
Baby vest, cotton	Pce	2	1.50
Hat, wool, extra small	Pce	1	0.50
Safety pins, small size, nickel free, for nappies	Pce	10	1.00
Socks, cotton, extra small	Pair	2	0.50
Washable baby diaper, 100% cotton, 30x15 cm (non-disposable)	Pce	12	2.00
Disposable baby diaper small size	Box of 20	4	3.00
<b>Total</b>			<b>16.50</b>

<sup>3</sup> Zaatari birth rate

## Source data

### Available Jordan data: Johns Hopkins Survey

Among households that ever sought care at a government health facility, a mean of 6.0 (median=4, range 0-90) visits were reported per household in the six months preceding the survey and a mean of 1.1 (median=0.75, range 0-18) visits per person in six months.

Less than half of Syrian households, 45.2% (CI: 42.3-48.1), reported seeking care at private sector facilities since their arrival in Jordan. Among households that ever sought care at a private health facility, a mean of 4 (median=3, range 0-30) visits to a private facilities were reported per household in the six months preceding the survey and a mean of 0.7 (median=0.5, range 0-6.25) visits were reported per person.

### Household Spending on Health

In the month preceding the survey, mean household spending on health was 57.0 JOD (CI: 46.8-67.3, median = 40, range 0-5500).

**Means out-of-pocket payments for the most recent adult health visit by provider sector for all households were as follows:** private sector, 46.8 JOD (CI: 18.1-75.6, median=10); public sector, 11.5 JOD (CI: 0-23.3, median=0), and charity/NGO 3.4 JOD (CI: 0-8.3, median=0) (p=0.008). Among households with out-of-pocket payments only, the mean was 62.9 JOD (CI: 24.7-101.1, median=12) in the private sector, 70.3 JOD (CI: 1.5-139.2, median=13) in the public sector, and 16.4 JOD (CI: 0-39.6, median=2) at charity/NGO facilities (p=0.001).

**Hospitalizations in Jordan:** In the year preceding the survey, 21.2% (CI: 18.9-23.6) of households reported one or more hospitalizations of a household member in Jordan for reasons other than childbirth. Households reported an average of 2.1 (CI: 1.7-2.3, median=1, range=1-20) hospitalizations in the six months preceding the survey.

**Health Seeking and Service Utilization among Children:** A large percentage of households with children reported needing medical care for a child within the month preceding the survey (68.5%). Among children for whom care was sought, most households (70.7%, CI: 67.1-74.0) reported accessing medical care without an out-of-pocket payment.

**Pregnancy:** When asked about recent deliveries and antenatal care (ANC), 20.3% (CI: 18.3-22.4) of respondents said a woman in the household had given birth in the past year. Of those women, 87.9% (CI: 83.2-91.4) had delivered in Jordan.

### KEY CONTACTS

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**FOR MORE INFORMATION SEE THE MEB ONLINE:**

[HTTP://DATA.UNHCR.ORG/SYRIANREFUGEES/COUNTRY.PHP?ID=107](http://data.unhcr.org/syrianrefugees/country.php?id=107)

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