





Medair Lebanon August 2018

HEALTH & WASH KPC SURVEYS: KNOWLEDGE, PRACTICE AND COVERAGE

2016-2017 Comparison report

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INTRODUCTION

This report was prepared based on the 2016 and 2017 Knowledge, Practices and Coverage survey reports, and should be read in conjunction with them. They can be made available on request.

MFTHODOLOGY

Survey Preparation and Data Collection¹

For the 2016 and both 2017 KPC Surveys, the Medair M&E team calculated sample size requirements and built a sampling frame using a stratified cluster design (30 clusters within the vulnerable Lebanese population and 30 clusters within the Syrian refugee population), to achieve 95% confidence interval point estimates with an acceptable degree of precision. During the second part of the consultancy, three datasets were looked at in order to compare health related behaviors and indicators:

- The 2017 KPC Survey in the Bekaa area: 792 respondents (400 Lebanese and 392 Syrians)
- The 2017 KPC Survey in Medair's Area of Intervention (AOI): 780 respondents (395 Lebanese and 385 Syrians)
- The 2016 KPC Survey in Medair's AOI: 752 respondents (385 Lebanese and 367 Syrians)

This enables both geographical and historical comparison with the previous year.

Data Analysis

Data Cleaning

The three sets of data were cleaned and matched before the analysis. In some cases, columns were added to facilitate the analysis and match the indicators to report on. A few data entries were removed from the dataset: when no female was present in the household, when women did not consent to participate in the survey, when there was no child under 5 in the household and when the discrepancies between cluster, cadaster or respondent type could not be resolved.

Sampling Weights

Sampling weights were calculated for the 2016 dataset in order to match the method used to define weights in the 2017 datasets. The weights take into account the total population, the cadaster population in which the cluster interviews were conducted and the number of interviews of each cluster.

Software

The data was analyzed with the complex samples toolkit in SPSS using clusters and population weights. Most of the data being categorical variables, the chi-square test of independence was used to determine statistical difference between the two groups: vulnerable Lebanese and Syrian refugees.

For frequency calculations, the following measures were included: percentage, unweighted count, standard error, 95% confidence interval² and design effect. Some additional cross tabulations were

¹ For the study design, the questionnaire design, the sample size and sampling frame, the enumerator selection and training, the data entry fieldwork and the selection of participants, please refer to the main 2016 and 2017 reports for more details.

² Since most of the variables are binomial and the estimates are percentages, constrained between 0 and 100, the confidence intervals are not symmetric and were calculated using a logarithm transformation. For more information, see: http://www-01.ibm.com/support/docview.wss?uid=swg21480661

used to confirm statistically significant differences with the chi-square in most cases, p-values and odds ratio. In order to be able to compare the 2016 and 2017 datasets, the 2016 data was reanalyzed and the indicators' point estimates changed. However, the majority of the results presented in the 2016 report were still within the confidence intervals newly calculated. All the working files are available upon request: datasets, sampling weights calculations, analysis scripts, complex samples plans and outputs.

OBJECTIVES

This following commentary aims to report on all statistically significant differences between 2016 and 2017 that could indicate potential trends in the two populations of interest (Syrian refugees and vulnerable Lebanese) within Medair's Area of Intervention (AOI).

- The AOI is defined as the area within a 5km radius of social development centers (SDCs, which offer primary and reproductive health care services) Medair supports³.
- The statistically significant difference was determined by looking at odds ratio⁴ when available for 2x2 tables and non-overlapping confidence intervals otherwise for questions with a categorical response.
- The wording used attempts to reflect the results in the tables below: "overall" means there is a statistical difference for the combined population between 2016 and 2017; "overall, for Lebanese and Syrians" means that even when it is broken down by nationality, the statistical difference remains and "overall, and especially for Lebanese" means that the statistical difference is only within the Lebanese subgroup and not the Syrian subgroup, on top of the combined data.

³ In the 2017 survey these included Talia, Rafid, Brital, Kfarzabad, Marj, Kabelias, and Joub Janine SDCs. The 2016 survey also covered Kawkaba, Chaat, and Nabishit SDCs, which at the time were also covered by Medair. These health facilities are located within the districts of Baalbek, Rachaya, West Bekaa, and Zahle, in the Bekaa Valley

⁴ "The 95% confidence interval (CI) is used to estimate the precision of the OR. [...] In practice, the 95% CI is often used as a proxy for the presence of statistical significance if it does not overlap the null value (e.g. OR=1)."

Retrieved from: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2938757/

COMMENTARY ON TRENDS

Summary table of indicators 2016-2017

Topic	Indicator	AOI (2016)	AOI (2017)	Bekaa (2017)	Statistical
					Difference
		90.6% [87.0 <i>,</i>		88.8% [84.6,	No
		93.3]	95.0]	92.0] ⁵	
_	needed medical services (measured by				
	survey) % of women who know 2 or more ways to	I ER: 60 6%	LEB: 65.4%	LEB: 73.5% [66.8,	Vac for SVP
_	reduce the risk of NCDs	[52.2, 68.5]	[59.1, 71.2]		between 2016
prevention	reduce the risk of NCDs	SYR: 29.3%	SYR: 51.8%	SYR: 57.2%	and 2017 in AOI
prevention		[23.3, 36.1]	[43.8, 59.8]	[50.8,63.4]	ana 2017 iii 7.01
ORS and	% of children under 5 years with diarrhea	ORS or Zinc:	ORS or Zinc:	ORS or Zinc:	Yes for ORS or
	receiving ORS or zinc supplementation	LEB: 22.0%	65.0% [54.1,		Zinc between
diarrhea		[14.0, 32.8]	74.6]	78.1]	2016 and 2017 in
		SYR: 40.9%	,	_	AOI
		[29.6, 53.2]			
			ORS: 34.8%	ORS: 45.3%	Yes for zinc
		ORS: 23.9%	[26.7, 44.0]	[37.9, 52.9]	between 2016
		[18.1, 31.0]	Zinc: 34.0%	Zinc: 29.9%	and 2017 in AOI
		Zinc: 8.0% [4.8,	[27.1, 41.8]	[22.1, 39.1]	
		13.1]			
	% of children under 5 with fast or difficult		59.7% [52.0,	53.2% [46.1,	No
_	breathing for whom advice or treatment	63.2]	67.0]	60.1]	
	was sought from an appropriate health				
	facility or provider ⁶				
	% of infants 0-6 months who are	46.8% [34.2,		25.3% [15.9,	See note 5 about
BF	exclusively breastfed ⁷	59.8]	28.7]	37.8]	the yearly difference
Measles	% of children aged 6 months- 5 years ⁸	Including recall:	Including recall:	Including recall:	No
	who are vaccinated for measles in clinics	71.3% [66.0,	LEB: 79.1%	LEB: 80.5% [73.4,	
	coverage area	76.0]	[72.6, 84.5]	86.1]	
			SYR: 61.2%	SYR: 67.9%	
	Note: Vaccination activities at the same		[55.1, 67.0]	[60.7, 74.2]	
	time.	Partial ⁹ :			
		LEB: 50.9%	<u>Partial:</u>	<u>Partial:</u>	
		[43.3, 58.4]	LEB: 51.3%	45.8% [39.6,	
		SYR: 33.7%	[43.3, 59.2]	52.1]	
		[27.5, 40.5]	SYR: 33.2%		
		<u>Full:</u>	[25.4, 42.0]	<u>Full:</u>	
		LEB: 39.8%	Full:	27.3% [22.6,	
		[32.1, 48.1]	LEB: 32.5%	32.6]	
		SYR: 19.8%	[26.3, 39.3]		
		[15.8, 24.4]	SYR: 11.9% [7.8,		
			18.2]		
		L			

⁵ Note for the Bekaa 2017 indicator, the persons interviewed were not necessarily in an SDCs' catchment area ⁶ List of appropriate health facilities: hospital, health center, clinic, community health workers

⁷ This indicator was reconstructed based on a combination of questions and measured differently between

⁸ The survey asks vaccination questions to mothers about their youngest child between 1 and 5 years old ⁹ The partial indicator includes even one dose of MMR: "The MMR vaccine is very safe and effective. Two

doses of MMR vaccine are about 97% effective at preventing measles; one dose is about 93% effective." (CDC, www.cdc.gov/measles/vaccination.html)

Fully	% of children age 12-23 months who	Children 1-2	Children 1-2	Children 1-2	No
immunized	received age appropriate vaccination at	years	years	years	
children ¹⁰	time of survey	10.7% [6.8,	6.8% [4.0, 11.3]	8.1% [5.1, 12.6]	
		16.4]			
			Children 1-5	Children 1-5	
		Children 1-5	years	years	
		years	LEB: 22.1%	LEB: 24.5% [18.1,	
		LEB: 27.1%	[16.5, 28.9]	32.2]	
		[20.9, 34.5]	SYR: 8.3% [4.6,	SYR: 11.6% [7.7,	
		SYR: 11.6% [7.0,	14.6]	17.1]	
		17.2]			
Health care	% of mothers of children under 5 who	RH:	RH:	RH:	Yes for RH
	report accessing RH or PSS support	50.1% [44.7,	54.8% [49.8,	LEB: 39.7%	between AOI
and PSS	services ¹¹ in the 6 months prior to the	55.5]	59.7]	[33.8, 45.9]	and Bekaa in
	survey			SYR: 58.3%	2017
		PSS:		[51.7,64.7]	
		39.4% [34.5,			
		44.3]			
	% of mothers of children under 5 who	<u>FP:</u>	FP:	FP:	No
	report discussing FP or PSS ¹² with a	28.8% [23.6,	23.2% [18.2,	21.9% [18.3,	
	trained service provider in the 12 months	34.6]	29.0]	25.9]	
provider	preceding the survey				
ANC visits	% of mothers of children under two years	LEB: 74.2%	LEB: 67.4%	LEB: 72.8% [62.3,	No
	of age who had 4 comprehensive	[63.3, 82.8]	[58.4, 75.3]	81.3]	
	antenatal visits when they were pregnant	SYR: 41.9%	SYR: 47.6%	SYR: 54.6%	
	with their youngest child	[32.4, 52.1]	[40.7, 54.6]	[46.0, 62.9]	
PNC visits	% of mothers of children under two years	LEB: 86.9%	LEB: 78.2%	69.8% [63.7,	No
	of age who received a post-partum visit	[80.4, 91.5]	[70.8, 84.2]	75.2]	
	from an appropriate trained health	SYR: 63.5%	SYR: 62.4%		
	worker within two weeks after birth of	[56.2, 70.3]	[55.4, 60.0]		
	their youngest child after discharge from				
	health facility ¹³				
Use of				05 00/ [04 5	NI a
	% of mothers of children 0-23 months	27.3 % [22.3,	26.9% [21.8,	25.8% [21.5,	No
modern FP	% of mothers of children 0-23 months who are using a modern contraceptive method. 14	27.3% [22.3 <i>,</i> 32.8]	26.9% [21.8 <i>,</i> 32.7]	25.8% [21.5, 30.6]	INO

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¹⁰ This indicator has been changed and more complex in 2017 since it includes data collection of the boosters as well, which was not the case in 2016. A large percentage of children are deemed not fully vaccinated because cards could not be copied (42.5% for Bekaa 2017, 41.8% for Medair's AOI in 2017 and 42.5% for Medair's AOI in 2016).

The data from the PSS section in 2017 cannot be interpreted due to a constraint error. However, respondents were asked about comfort level with such services: vulnerable Lebanese were 1.6 times more likely to report being comfortable with accessing psychosocial support services (61.5%, n=218) than Syrian refugees (50.2%, n=184); pvalue=0.047.

refugees (50.2%, n=184); pvalue=0.047. ¹² No question was asked in the PSS module enabling to report on discussions with trained service providers in the past year in 2016 or 2017.

¹³ This indicator was reconstructed based on a combination of questions and measured differently between 2016 and 2017

¹⁴ The percentage of mothers of children 0-23 months who are using a modern contraceptive method out of those who want to delay pregnancies is much higher (63.2% in the Bekaa area in 2017)

Health-Seeking Behaviors

Types of Health Facilities Visited in the Past Year

Overall, for Lebanese and Syrians, the percentage of those who reported having needed to seek health services in the previous year decreased within Medair's AOI from 83.7% to 68.8%.

Overall, for Lebanese and Syrians, the percentage who went to SDCs increased from 23.5% in 2016 to 40.9% in 2017. Additionally, the percentage of Syrians going to a health facility (SDCs, health centers, private clinics or hospitals) increased from 11.6% in 2016 to 36.8% in 2017. These improvements may be due to the increased promotion of available services and medicine in SDCs. Overall, and especially for Lebanese, the percentage of those going to private clinics decreased by 8.5% between 2016 and 2017.

Health Contacts and Sources of Health Information

Overall, and especially for Syrian refugees, the contact with health staff, community health workers and health educators all improved as fewer respondents mentioned never having contact with health staff in the previous month.

Overall, for Lebanese and Syrians, the percentage of respondents who reported that their preferred source of information or advice on health and nutrition were doctors increased from 37.1% to 58.1% and the percentage of those who reported that it was community health workers decreased from 6.8% to 1.9% between 2016 and 2017. Overall, and especially for Syrian refugees, more respondents reported in 2017 that their preferred source of information was their husband (6.6% increase) or their sister (5.6% increase), compared to 2016.

Overall, for Syrians and Lebanese, fewer respondents reported getting advice or information from the television in 2017 (19.1% decrease) than in 2016. Overall, and especially for Lebanese, less respondents reported getting advice or information from the internet in 2017 (8.9% decrease) than in 2016.

Overall, for Syrians and Lebanese, fewer respondents reported not getting advice or information from any sources in 2017 (13.3% decrease), compared to 2016.

Overall, for Syrians and Lebanese, more respondents in 2017 reported that SMS was a source of the health messages they received in the previous month, compared to 2016. More Lebanese and Syrians also reported that they had received health messages from the previous month from the internet in 2017 (LEB: 59.1% and SYR: 16.2%). There seems to be a difference and potential conflicting data regarding the place and importance of the internet and SMS as a source for information about health behaviors, which should be looked at in further qualitative research, with special attention to the appropriate media channels for Lebanese and Syrians and ways in which they may differ.

Child Health

Signs of Child Illness

Overall, and especially for Lebanese, fewer respondents reported that their child under 5 was sick in the past two weeks in 2017 than in 2016 (11.1% decrease), whether with diarrhea (8.8% decrease), cough (9.9% decrease), difficulty breathing (14.1% decrease) or fever (11.0% decrease).

Diarrhea

Overall, the percentage of respondents who reported treating their child two days after they first noticed their diarrhea increased from 6.5% in 2016 to 16.4% in 2017, while the percentage of same day treatment decreased. This is in line with the recommendations that during the first day, parents should monitor the frequency of diarrhea and other signs related to hyperthermia and dehydration to start appropriate treatment if needed within the next 2 days maximum.

Overall, what is given to treat children with diarrhea improved:

- The percentage of Lebanese who reported giving nothing to treat diarrhea decreased from 12.8% in 2016 to 0.5% in 2017.
- Overall, for Syrians and Lebanese, the use of zinc to treat diarrhea increased from 8.0% in 2016 to 34.0% in 2017. The use of zinc or ORS to treat diarrhea doubled from 31.3% in 2016 to 65.0% in 2017.
- Overall, and especially for Syrians refugees, the use of home remedies decreased by half from 11.2% in 2016 to 5.2% in 2017.
- Overall, and especially for Lebanese, the use of injections, which is not in typical protocols to treat diarrhea, increased from 4.5% in 2016 to 16.9% in 2017.

Overall, and especially for Syrians, the percentage who sought advice or treatment for their child's diarrhea in a health facility increased from 46.9% to 64.6%. These improvements may be due to the focus of community health volunteers (CHVs) on advice to reduce further complication linked to dehydration during health promotion sessions on diarrhea as well as the focus of Medair's staff to ensure that guidelines for diarrhea treatment and care were followed during consultations in SDCs. When asked about the amount of liquids given to the child who had diarrhea compared to usual times:

The percentage of Syrians who were breastfeeding their child and reported giving more breastmilk during diarrhea increased from 0.4% in 2016 to 10.2% in 2017.

Overall, and especially for Syrians, the percentage of respondents not breastfeeding their child and who reported giving more fluids during diarrhea dropped from 21.0% in 2016 to 5.0% in 2017.

Medair CHVs focused on ensuring the misconception around reducing breastfeeding when a baby has diarrhea was debunked. Additional focus should be placed on ensuring that caregivers know that all children who experience diarrhea should be offer the same amount or more fluids while they are sick.

Acute Respiratory Infection (ARI)

For Lebanese, the use of cough drops to treat children who had a cough or difficulty breathing increased by 16.9% up to 77.7% in 2017. Overall, and especially for Lebanese, the use of antihistamines to treat children with cough or difficulty breathing has decreased by 13.5% to 6.5% in 2017. Though this data indicates some trends about home treatment of coughs by parents, Medair should focus future interventions and monitoring and evaluation efforts on understanding the prevalence of and care for children under 5 with symptoms of pneumonia.

Vaccinations

Out of the Syrian refugees who reported not having a vaccination card for their child, those who reported ever having a card decreased from 41.8% in 2016 to 16.6% in 2017.

For Syrian respondents who allowed the enumerators to copy their child's vaccination card, the percentage of children with the Penta vaccine (whether the first, second or third dose) increased between 2016 and 2017.

Reproductive Health

Access to Reproductive Health Services

The percentage of Syrians who reported that post-natal care (PNC) services were available in their community increased from 37.2% in 2016 to 53.7% in 2017. This improvement may be linked to the increased promotion by CHVs and as well as referrals from community midwives.

Overall, and especially for Syrians, the percentage of respondents who reported not knowing whether reproductive health services were available in their community decreased from 6.4% in 2016 to 3.4% in 2017.

Overall, for Lebanese and Syrians, the percentage of respondents who reported that reproductive health services were available in social development centers (SDCs) increased from 15.7% in 2016 to 34.9% in 2017. However, overall and especially for Lebanese, the percentage of respondents who reported that such services were available at health centers generally decreased from 21.9% in 2016 to 15.7% in 2017.

Overall, for Lebanese and Syrians, the percentage of respondents who reported being comfortable with accessing reproductive health services decreased from 94.3% in 2016 to 86.5% in 2017.

When asked in which country Syrian refugees accessed reproductive health services, there was over a ten percent increase in the access to those services in Lebanon between 2016 and 2017 (13.1% for ante-natal care (ANC), 14.0% for delivery and 21.6% for PNC).

Antenatal Care (ANC)

Overall, and especially for Lebanese, the percentage of respondents who reported seeing anyone for ANC during their last pregnancy decreased from 91.4% in 2016 to 83.6% in 2017.

Overall, for Lebanese and Syrians, the percentage of respondents who reported that their ANC took place in their residence increased from 3.3% in 2016 to 28.0% in 2017, whereas the percentage who reported that their ANC took place in private clinics decreased from 57.2% in 2016 to 36.3% in 2017. Taking into account that Medair's community midwives only visit Syrian households in their residence, there would be value in understanding the reasons behind such an increase being also reported within vulnerable Lebanese communities, and understanding what types of services Lebanese women classify as ANC services.

The percentage of Syrians who reported that their first ANC visit happened within the first month of their pregnancy increased from 28.7% in 2016 to 43.4% in 2017 and the percentage of Syrians who reported that their last ANC visit happened during the ninth month of their pregnancy decreased from 86.2% in 2016 to 71.9% in 2017.

The percentage of vulnerable Lebanese who reported not having received any ANC during the pregnancy of their youngest child increased from 3.9% in 2016 to 14.9% in 2017.

Giving Birth in a Health Facility

Overall, and especially for Syrians, the percentage of respondents who reported transportation as the reason they had not delivered in a hospital increased from 2.0% in 2016 to 23.7% in 2017. Part of this change can potentially be explained by the increasing financial burden on Syrian refugee households: VaSyR 2017 reports that "the economic vulnerability has worsened, with more than half of refugees living in extreme poverty".

Overall, and especially for Lebanese, the percentage of respondents who reported having been assisted by nurses during their last delivery decreased from 38.1% in 2016 to 21.7% in 2017.

Postnatal Care (PNC)¹⁵

Overall, for Lebanese and Syrians and between 2016 and 2017, the percentage of responses regarding the place in which they received post-partum care increased at their residence from 8.4% to 59.1% and decreased in private clinics from 53.3% to 13.4%.

Overall, and especially for Syrians, the percentage of those who reported having received their post-partum care in a hospital decreased from 27.2% in 2016 to 13.7% in 2017.

Family Planning/Child Spacing

Overall between 2016 and 2017, for both Lebanese and Syrians, respondents reported an increase in their knowledge about the risks linked to not spacing births (15.2% increase for the baby being born too small, 8.3% increase for the baby being born early and 14.4% decrease for those who did not know of any risks).

Overall, and especially for Syrians, the percentage of those not receiving family planning services decreased from 7.5% in 2016 to 2.6% in 2017.

Family Health

Non-communicable Disease (NCDs)

Overall, the knowledge around NCDs improved between 2016 and 2017. This may be linked to efforts made to increase beneficiaries' knowledge about NCDs, especially around the SDC in Brital and its NCD program:

- About twice as many Syrians mentioned reducing stress (from 11.8% in 2016 to 26.8% in 2017) as way to reduce the risk of NCDs and the percentage of Syrians who mentioned exercise to reduce the risk of NCDs increased from 0.7% in 2016 to 4.9% in 2017.
- Overall, for Syrians and Lebanese, the percentage of respondents who reported that stopping smoking can help reduce the risk of NCDs increased from 4.0% in 2016 to 12.3% in 2017. Similarly, the percentage of respondents who reported not knowing any method of preventing NCDs decreased from 29.6% in 2016 to 13.0% in 2017.
- Overall, and especially for Syrians, the percentage of respondents who reported that reducing sugar intake can help reduce the risk of NCDs increased from 44.3% in 2016 to 57.8% in 2017.

Psychosocial Support Services

Overall, and for both Lebanese and Syrians, the percentage of respondents who reported that there were no psychosocial support services available in their community decreased from 64.6% in 2016 to 28.2% in 2017. This might be due to the fact that a 'do not know' option was added in the 2017 choices and was not in the 2016 survey: in 2017, 71.3% of respondents reported either not knowing any services or that they were unavailable.

Overall, for Syrians and Lebanese, the percentage of respondents who reported that psychosocial support services could be accessed in specialized hospitals decreased from 14.7% in 2016 to 4.7% in 2017.

Overall, for Syrians and Lebanese, the percentage of respondents who reported being comfortable with accessing psychosocial support services decreased from 82.7% in 2016 to 59.2% in 2017.

¹⁵ All information about PNC should be explored further (particularly beneficiaries' understanding of what postnatal care consists of) as the questions within this section changed between 2016 and 2017.

Detailed tables of statistically significant differences ¹⁶ between 2016 & 2017

Table 1 – Health Seeking Behaviors

Question	Answer	2016	2017	Trend
In the last year, have you or your	Yes	83.7% [79.8, 87.0]	68.8% [62.7, 74.3]	Decreased
child/children needed medical		LEB: 81.5% [76.1, 85.9]	LEB: 62.7% [54.0, 70.6]	- 14.9%
services?		SYR: 86.4% [80.4, 90.8]	SYR: 73.5% [65.3, 80.3]	
Which health facility did you go	SDC	23.5% [18.1, 29.9]	40.9% [35.7, 46.2]	Increased
to? (asked if reported going to a		LEB: 14.9% [10.0, 21.7]	LEB: 31.2% [23.4, 40.4]	+ 17.4%
health facility when they needed		SYR: 33.2% [25.1, 42.3]	SYR: 47.1% [42.3, 51.9]	
the medical services)	Private clinic	29.1% [23.0, 36.1]	20.6% [16.3, 25.8]	Decreased
,		LEB: 43.6% [36.2, 51.3]	LEB: 30.7% [24.6, 37.5]	- 8.5%
	Health Facility	SYR: 11.6% [5.6, 22.7]	SYR: 36.8% [22.3, 54.1]	Improved + 25.2%
During the last wearth have after	No soutost with	00.70/ [75.0.05.4]	72.50/ [60.6.76.4]	
During the last month how often	No contact with	80.7% [75.3, 85.1]	72.5% [68.6, 76.1]	Improved
have you come in contact with	health staff	SYR: 90.7% [86.7, 93.6]	SYR: 75.9% [71.0, 80.2]	- 8.2%
each of the following?	No contact with	91.3% [88.0, 93.7]	78.5% [73.8, 82.5]	Improved
	community health workers	SYR: 92.8% [88.9, 95.3]	SYR: 77.4% [71.1, 82.7]	- 12.8%
	No contact with	95.4% [92.9, 97.1]SYR:	86.8% [82.9, 90.0]SYR:	Improved
	health educator	96.4% [91.7, 98.5]	84.7% [79.1, 89.1]	- 8.6%
Where do you prefer to get	Doctor	37.1% [31.0, 43.7]	58.1 % [52.1, 63.8]	Increased
general information or advice on		LEB: 47.3% [39.1, 55.6]	LEB: 67.8% [61.5, 73.5]	+ 21.0%
health or nutrition?		SYR: 24.8% [18.5, 32.4]	SYR: 50.7% [42.9, 58.5]	
	Community health	6.8% [4.9, 9.2]	1.9% [1.0, 3.6]	Decreased
	workers	LEB: 5.4% [3.4, 8.5]	LEB: 1.5 % [0.6, 3.4]	- 4.9%
		SYR: 8.4% [5.4, 12.7]	SYR: 2.2% [0.9, 5.3]	
	Husband	8.3% [6.5, 10.5]	14.9% [11.6, 19.0]	Increased
		SYR: 4.8% [2.8, 8.2]	SYR: 15.7% [10.8, 22.5]	+ 6.6%
	Sister	6.7% [4.8, 9.3]	12.3% [9.6, 15.6]	Increased
		SYR: 4.3% [2.4, 7.6]	SYR: 11.4% [8.2, 15.7]	+ 5.6%
	No one	17.5% [12.8, 23.4]	4.2% [2.5, 7.0]	Improved
		LEB: 11.8% [7.3, 18.6]	LEB: 3.1% [1.2, 8.0]	- 13.3%
		SYR: 24.3% [16.6, 34.1]	SYR: 5.1% [2.8, 9.0]	-2.27
	Television	22.8% [17.8, 28.8]	3.7% [2.1, 6.5]	Decreased
		LEB: 33.7% [27.7, 40.2]	LEB: 6.6% [3.5, 12.2]	- 19.1%
		SYR: 9.8% [6.6, 14.2]	SYR: 1.5% [0.7, 3.4]	13.170
	Internet	17.4% [12.8, 23.3]	8.5% [5.7, 12.6]	Decreased
		LEB: 28.0% [21.9, 34.9]	LEB: 13.1% [7.9, 21.1]	- 8.9%
In the past month, have you	Internet	LEB: 48.2% [41.8, 54.7]	LEB: 59.1% [51.5, 66.3]	Increased
received any health messages		SYR: 7.8% [4.7, 12.5]	SYR: 16.2% [13.0, 19.9]	LEB: + 10.9%
from the following?		21 7.075 [117] 12.0]	[13.0, 13.3]	SYR: + 8.4%
	SMS	29.9% [23.1, 37.8]	34.7% [27.6, 42.5]	Increased
		LEB: 14.0% [9.4, 20.2]	LEB: 34.4% [26.8, 43.0]	+ 4.8%
		SYR: 7.2% [4.0, 12.5]	SYR: 15.5% [10.5, 22.4]	110/0
What services did you receive	Transportation	30.5% [16.8, 48.9]	4.5% [1.6, 11.8]	Decreased
from Medair?	voucher	LEB: 20.4% [7.0, 46.7]	LEB: 0.0%	- 26.0%
	· · · · · · · · · · · · · · · · · · ·	SYR: 34.1% [16.6, 57.4]	SYR: 5.3% [2.0, 13.7]	20.070
		J. N. J4.1/0 [10.0, J/.4]	3111. 3.370 [2.0, 13.7]	l

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¹⁶ As mentioned above, the statistically significant difference was determined by looking at odds ratio for 2x2 tables and non-overlapping confidence intervals otherwise for questions with a categorical response. "The 95% CI is used to estimate the precision of the OR. [...] In practice, the 95% CI is often used as a proxy for the presence of statistical significance if it does not overlap the null value (e.g. OR=1)."

Table 2 – Child Health

Question	Answer	2016	2017	Trend
Did any of your children under	Diarrhea	37.8% [33.8, 41.9]	29.0% [23.7, 34.9]	Decreased
the age of 5 experience any of		LEB: 35.1% [30.4, 40.1]	LEB: 23.3% [17.5, 30.3]	- 8.8%
the following in the past two	Cough	68.5% [62.9, 73.7]	58.6% [53.4, 63.7]	Decreased
weeks?		LEB: 69.4% [62.3, 75.7]	LEB: 52.7% [46.7, 58.7]	- 9.9%
	Difficulty	41.5% [35.5, 47.9]	27.4% [22.1, 33.3]	Decreased
	Breathing	LEB: 40.9% [34.3, 47.8]	LEB: 22.5% [15.8, 31.0]	- 14.1%
	Cough or difficulty	72.2% [66.6, 77.1]	63.3% [57.7, 68.5]	Decreased
	breathing	LEB: 73.1% [65.7, 79.4]	LEB: 56.2% [50.1, 62.2]	- 8.9%
	Cough and	37.9% [31.7, 44.6]	22.5% [17.6, 28.2]	Decreased
	difficulty breathing	LEB: 37.3% [30.8, 44.3]	LEB: 19.0% [12.5, 27.7]	- 15.4%
		SYR: 38.7% [27.7, 51.0]	SYR: 25.1% [18.7, 32.9]	
	Fever	57.9% [53.0, 62.6]	46.9% [41.2, 52.7]	Decreased
		LEB: 53.0% [47.9, 57.9]	LEB: 37.1% [31.2, 43.3]	- 11.0%
	Any sickness	85.1% [81.2, 88.3]	74.0% [69.4, 78.2]	Decreased
		LEB: 85.2% [80.7, 88.8]	LEB: 67.4% [62.1, 72.2]	- 11.1%
How long after you noticed the	Two days	6.5% [3.9, 10.4]	16.4% [11.4, 23.1]	Increased
child's diarrhea, did you give				+ 9.9%
treatment?				
What was given to treat the diarrhea?	Nothing	LEB: 12.8% [7.4, 21.3]	LEB: 0.5% [0.1, 2.4]	Improved - 12.3%
	Zinc	8.0% [4.8, 13.1]	34.0% [27.1, 41.8]	Increased
		LEB: 6.1% [3.2, 11.3]	LEB: 30.4% [19.9, 43.4]	+ 26.0%
		SYR: 9.9% [4.8, 19.3]	SYR: 36.0% [27.3, 45.7]	
	Injection	4.5% [2.5, 8.2]	16.9% [10.0, 27.0]	Increased
		LEB: 4.2% [1.7, 9.9]	LEB: 24.4% [10.6, 46.6]	+ 12.4%
	Home remedies	11.2% [7.5, 16.4]	5.2% [2.7, 9.8]	Decreased
		SYR: 13.5% [7.8, 22.3]	SYR: 3.6% [1.3, 9.7]	- 6.0%
	ORS or Zinc	31.3% [23.6, 40.3]	65.0% [54.1, 74.6]	Improved
		LEB: 22.0% [14.0, 32.8]	LEB: 56.8% [40.1, 72.0]	+ 33.7%
		SYR: 40.9% [29.6, 53.2]	SYR: 69.5% [55.2, 80.8]	
When your child had diarrhea,	Health facility	46.9% [39.0, 55.0]	64.6% [56.0, 72.3]	Improved
where did you first go for advice or treatment?		SYR: 38.5% [27.7, 50.5]	SYR: 64.9% [54.6, 73.9]	+ 17.7%
When the child had diarrhea, did	Breastfed + More	SYR: 0.4% [0.1, 2.9]	SYR: 10.2% [3.5, 26.6]	Improved
you breastfeed him/her less than				SYR: + 9.8%
usual, the same amount, or more				
than usual?				
When the child had diarrhea, was	Non breastfed	21.0% [15.3, 28.1]	5.0% [1.7, 13.4]	Worsened
she/he offered less than usual to	+ More	SYR: 23.7% [15.5, 34.4]	SYR: 2.0% [0.3, 14.1]	- 16.0%
drink, about the same amount, or				
more than usual to drink?				
What was given to treat the	Cough drops	LEB: 60.8% [53.1, 67.9]	LEB: 77.7% [68.6, 84.7]	Increased
child's cough or fast breathing?				+ 16.9%
	Anti Histamines	20.0% [15.1, 26.0]	6.5% [4.1, 10.2]	Decreased
		LEB: 27.1% [20.7, 34.6]	LEB: 8.4% [4.8, 14.3]	- 13.5%
Did you ever have a vaccination card for your child?	Yes (asked if no card)	SYR: 41.8% [26.0, 59.5]	SYR: 16.6% [8.3, 30.4]	Decreased SYR: - 25.2%
May I copy the information from	Penta1 + Received	SYR: 71.4% [61.1, 79.8]	SYR: 87.1% [81.0, 91.5]	Increased
the vaccination card?				SYR: + 15.7%
	Penta2 + Received	SYR: 62.0% [47.5, 74.5]	SYR: 81.4% [74.9, 86.5]	Increased
				SYR: + 19.4%
	Penta3 + Received	SYR: 51.8% [39.5, 63.9]	SYR: 71.7% [62.4, 79.5]	Increased
	1	1	1	SYR: + 19.9%

Table 3 – Reproductive Health

Question	Answer	2016	2017	Trend
What types of services are available for reproductive health in your community?	PNC	SYR: 37.2% [31.3, 43.4]	SYR: 53.7% [44.4, 62.8]	Improved SYR: + 16.5%
,	Do not	6.4% [4.5, 9.2]	3.4% [2.3, 4.9]	Improved
	know	SYR: 10.4% [7.3, 14.7]	SYR: 3.6% [2.3, 5.8]	- 3.0%
Where can you access reproductive health	SDC	15.7% [11.2, 21.6]	34.9% [28.8, 41.6]	Increased
services in your community?		LEB: 6.8% [4.1, 11.1]	LEB: 19.8% [14.9, 25.8]	+ 19.2%
		SYR: 26.4% [19.0, 35.5]	SYR: 46.8% [39.8, 53.9]	
	Health	21.9% [18.1, 26.3]	15.7% [12.2, 20.1]	Decreased
	center	LEB: 17.9% [13.6, 23.2]	LEB: 9.0% [5.9, 13.5]	- 6.2%
For any type of reproductive healthcare	Yes	94.3% [91.0, 96.0]	86.5% [82.7, 89.6]	Decreased
needs, would you feel comfortable		LEB: 94.7% [91.5, 96.7]	LEB: 89.1% [84.2, 92.6]	- 7.8%
accessing one of these services?		SYR: 93.9% [89.7,	SYR: 84.5% [79.0,	
		96.4]	88.9]	
Where did you access those services?	SDC	17.6% [11.2, 26.5]	38.2% [29.8, 47.2]	Increased
(asked if any RH services sought in past		LEB: 4.8% [2.2, 10.0]	LEB: 19.9% [12.6, 30.1]	+ 20.6%
6months)		01/D 00 00/ 1=0.0	01/0 -0 -0/ [0	
Where did you access those services?	ANC + Leb	SYR: 66.6% [59.0,	SYR: 79.7% [75.2,	Increased
(asked to Syrian refugees)	Dallaran	73.5]	83.7]	SYR: + 13.1%
	Delivery +	SYR: 68.1% [61.3,	SYR: 82.1% [77.6,	Increased
	Leb PNC + Leb	74.2]	85.8]	SYR: + 14.0% Increased
	PNC + Leb	SYR: 57.2% [52.4, 61.8]	SYR: 78.8% [71.9, 84.3]	SYR: + 21.6%
During your pregnancy with your youngest	Yes	91.4% [87.6, 94.2]	83.6% [79.7, 86.8]	Decreased
child, did you see anyone for antenatal	res	LEB: 96.0% [93.0, 97.8]	LEB: 84.7% [79.5, 88.7]	- 7.8%
care?		LLB. 30.0% [33.0, 37.6]	LLB. 64.7% [79.3, 66.7]	- 7.870
During your pregnancy with your youngest	Your	3.3% [2.0, 5.5]	28.0% [22.4, 34.4]	Increased
child, where did you receive antenatal	residence	LEB: 0%	LEB: 25.7% [18.5, 34.0]	+ 24.7%
care?	residence	SYR: 7.6% [5.0, 11.3]	SYR: 29.9% [21.8,	. 24.770
		[5:0, 22:0]	39.3]	
	Private	57.3% [50.0, 64.3]	36.3% [29.7, 43.4]	Decreased
	clinic	LEB: 74.9% [69.7, 79.5]	LEB: 51.7% [43.1, 60.2]	- 21.0%
		SYR: 34.1% [27.6,	SYR: 24.2% [18.1,31.6]	
		41.2]		
During your pregnancy with your youngest	First ANC	SYR: 28.7% [22.2,	SYR: 43.4% [38.4,	Increased
child, how many months pregnant were	+1 st month	36.2]	48.5]	SYR: + 14.7%
you when you received antenatal care?	Last ANC	SYR: 86.2% [80.6,	SYR: 71.9% [62.6,	Decreased
	+9 th month	90.3]	79.7]	SYR: - 14.3%
During your pregnancy with your youngest	No ANC	LEB: 3.9% [2.1, 6.9]	LEB: 14.9% [11.0, 19.8]	Worsened
child, how many times did you receive				LEB: + 11.0%
ANC?	Transissis	2.00/ [0.5.0.2]	22 70/ [11 1 42 4]	Increase 4
What was the reason that you did not deliver in a hospital or clinic?	Transport	2.0% [0.5, 8.2]	23.7% [11.1, 43.4]	Increased
deliver in a hospital or clinic?		SYR: 2.2% [0.5, 9.0]	SYR: 33.1% [16.8, 54.8]	+ 21.7%
Who assisted with the delivery of your	Nurse	38.1% [31.4, 45.2]	21.7% [16.6, 27.9]	Decreased
youngest child?	114.30	LEB: 52.4% [44.4, 60.2]	LEB: 21.8% [14.2, 31.8]	- 16.4%
After giving birth with your youngest child,	Your	8.4% [5.0, 13.8]	59.1% [52.1, 65.8]	Increased
where did you receive post-partum care?	residence	LEB: 4.8% [1.9, 11.6]	LEB: 50.5% [41.4, 59.6]	+ 50.7%
, , , , , , , , , , , , , , , , , , , ,		SYR: 15.5% [8.7, 26.1]	SYR: 65.6% [56.0,	
			74.0]	
	Hospital	27.2% [20.8, 34.7]	13.7% [11.0, 16.9]	Decreased
		SYR: 34.1% [22.5,	SYR: 10.8% [8.3, 13.9]	- 13.5%
		48.0]		
	Private	53.3% [45.5, 60.9]	13.4% [9.8, 17.9]	Decreased
	clinic	LEB: 63.2% [55.1, 70.6]	LEB: 21.8% [16.4, 28.5]	- 39.9%
		SYR: 33.3% [23.5,	SYR: 7.0% [4.2, 11.5]	

		44.7]		
What are the risks of getting pregnant too	Baby born	6.2% [4.2, 9.2]	21.4% [17.5, 25.9]	Improved
soon after the birth of a child?	too small	LEB: 9.4% [6.5, 13.5]	LEB: 26.3% [20.6, 33.0]	+ 15.2%
		SYR: 2.3% [0.8, 6.1]	SYR: 17.6% [13.0,	
			23.5]	
	Baby born	6.1% [4.1, 9.2]	14.4% [11.0, 18.6]	Improved
	too early	LEB: 8.0% [4.9, 12.8]	LEB: 18.9% [13.3, 26.1]	+ 8.3%
		SYR: 3.8% [2.0, 7.4]	SYR: 11.0% [7.6, 15.7]	
	Do not	21.9% [15.5, 29.9]	7.5% [5.3, 10.5]	Improved
	know	LEB: 16.6% [9.6, 27.1]	LEB: 5.0% [3.0, 8.1]	- 14.4%
		SYR: 28.5% [18.4,	SYR: 9.4% [6.2, 14.1]	
		41.3]		
If you are using a method, which method	No FP	7.5% [5.6, 9.9]	2.6% [1.6, 4.3]	Improved
are you using to delay/avoid getting		SYR: 9.0% [5.9, 13.5]	SYR: 2.3% [1.0, 5.2]	- 4.9%
pregnant?				

Table 4 – Family Health

Answer	2016	2017	Trend
Reduce sugar	44.3% [37.9, 50.9]	57.8% [52.9, 62.6]	Improved
	SYR: 32.5% [24.8,	SYR: 54.1% [47.5, 60.5]	+ 13.5%
	•		
Reduce stress	SYR: 11.8% [7.2, 18.9]	SYR: 26.8% [20.1, 34.6]	Improved
			SYR: + 15.0%
Stop smoking	4.0% [2.5, 6.4]	12.3% [9.3, 16.0]	Improved
	LEB: 7.2% [4.8, 10.6]	LEB: 14.5% [10.6, 19.4]	+ 8.3%
	SYR: 0.2% [0.1, 1.0]	SYR: 10.6% [6.7, 16.2]	
Exercise	SYR: 0.7% [0.2, 2.4]	SYR: 4.9% [3.0, 7.8]	Improved
			SYR: + 4.2%
Do not know	29.6% [23.1, 37.1]	13.0% [9.9, 16.8]	Improved
	LEB: 13.9% [9.3, 20.2]	LEB: 6.7% [4.3, 10.3]	- 16.6%
	SYR: 48.7% [40.7,	SYR: 17.8% [13.6, 22.9]	
	56.8]		
Number of	35.5% [28.1, 43.5]	23.9% [19.8, 28.5]	Improved
methods	SYR: 55.5% [46.4,	SYR: 29.6% [24.3, 35.4]	- 11.6%
known=0	64.3]		
No services*	64.6% [59.7, 69.3]	28.2% [22.6, 34.6]	Decreased
	LEB: 60.7% [55.4,	LEB: 28.7% [21.1, 37.7]	- 36.4%
	65.8]	SYR: 27.8% [20.2, 37.0]	
	SYR: 69.4% [61.0,		
	76.6]		
Specialized	14.7% [11.2, 19.2]	4.7% [2.8, 7.9]	Decreased
hospital	LEB: 22.4% [18.0,	LEB: 9.4% [5.6, 15.2]	- 10.0%
	27.7]	SYR: 1.1% [0.4, 3.2]	
	SYR: 5.4% [2.8, 10.3]		
Other clinic*	18.6% [14.2, 24.0]	9.1% [6.2, 13.1]	Decreased
	SYR: 12.9% [8.4, 19.4]	SYR: 2.8% [1.3, 5.9]	- 9.5%
Yes	82.7% [77.8, 86.8]	59.2% [51.5, 66.4]	Worsened
	LEB: 84.6% [78.2,	LEB: 62.3% [52.9, 70.9]	- 23.5%
	89.4]	SYR: 56.5% [45.0, 67.4]	
	SYR: 80.4% [72.3,		
	86.6]		
	Reduce sugar Reduce stress Stop smoking Exercise Do not know Number of methods known=0 No services* Specialized hospital Other clinic*	Reduce sugar A4.3% [37.9, 50.9] SYR: 32.5% [24.8, 41.4] Reduce stress SYR: 11.8% [7.2, 18.9] Stop smoking 4.0% [2.5, 6.4] LEB: 7.2% [4.8, 10.6] SYR: 0.2% [0.1, 1.0] Exercise SYR: 0.7% [0.2, 2.4] Do not know 29.6% [23.1, 37.1] LEB: 13.9% [9.3, 20.2] SYR: 48.7% [40.7, 56.8] Number of methods SYR: 55.5% [28.1, 43.5] Mo services* 64.6% [59.7, 69.3] LEB: 60.7% [55.4, 65.8] SYR: 69.4% [61.0, 76.6] Specialized hospital LEB: 22.4% [18.0, 27.7] SYR: 54% [2.8, 10.3] Other clinic* 18.6% [14.2, 24.0] SYR: 12.9% [8.4, 19.4] Yes 82.7% [77.8, 86.8] LEB: 84.6% [78.2, 89.4] SYR: 80.4% [72.3,	Reduce sugar 44.3% [37.9, 50.9] 57.8% [52.9, 62.6] SYR: 32.5% [24.8, 41.4] 57.8% [52.9, 62.6] Reduce stress SYR: 11.8% [7.2, 18.9] SYR: 54.1% [47.5, 60.5] Stop smoking 4.0% [2.5, 6.4] LEB: 7.2% [4.8, 10.6] LEB: 14.5% [10.6, 19.4] SYR: 0.2% [0.1, 1.0] LEB: 14.5% [10.6, 19.4] SYR: 10.6% [6.7, 16.2] Exercise SYR: 0.7% [0.2, 2.4] SYR: 10.6% [6.7, 16.2] Do not know 29.6% [23.1, 37.1] LEB: 13.9% [9.3, 20.2] SYR: 4.9% [3.0, 7.8] LEB: 6.7% [4.3, 10.3] SYR: 17.8% [13.6, 22.9] Number of methods SYR: 55.5% [46.4, 64.4] SYR: 29.6% [24.3, 35.4] SYR: 29.6% [24.3, 35.4] SYR: 29.6% [24.3, 35.4] No services* 64.6% [59.7, 69.3] LEB: 60.7% [55.4, 65.8] SYR: 27.8% [20.2, 37.0] SYR: 27.8% [20.2, 37.0] Specialized hospital 14.7% [11.2, 19.2] LEB: 9.4% [5.6, 15.2] SYR: 1.1% [0.4, 3.2] LEB: 9.4% [5.6, 15.2] SYR: 1.1% [0.4, 3.2] Other clinic* 18.6% [14.2, 24.0] SYR: 2.8% [1.3, 5.9] SYR: 2.8% [1.3, 5.9] Yes 82.7% [77.8, 86.8] LEB: 84.6% [78.2, 89.4] SYR: 80.4% [72.3, 86.6] SYR: 56.5% [45.0, 67.4] SYR: 80.4% [72.3, 86.6] SYR: 56.5% [45.0, 67.4]

^{*} A 'Do not know' option was added in the 2017 survey (43.1% for the availability and 66.4% for the location of PSS services) that did not exist in the 2016 survey, which may skew the results and explain the decrease in those responses.

FURTHER RESEARCH

This section identifies areas for further research, especially qualitative explorations through focus groups discussions or key informant interviews to understand better some of the trends reported in the *Commentary on trends* document of this report. There are also some recommendations about examining clinic data in conjunction with the information from the survey. This could in theory inform the updating of either a theory of change or a causal tree analysis to improve the health of Syrian refugees and vulnerable Lebanese in the Bekaa Valley.

Health-Seeking Behaviors

- Determine the knowledge of host and refugee communities around the health facilities available and their differences: Social Development Centers (SDCs), health centers, public or private hospitals, clinics.
- Determine which sources of information have an effect on health behaviors of refugee and host communities in Lebanon. Indeed, there seems to be a contradiction regarding the place and importance of the internet in disseminating advice or messages on health behaviors: fewer respondents reported getting advice or information from the internet but more respondents reported that they had received health messages from the internet in the month prior to the survey in 2017.

Child Health

- Determine the knowledge of host and refugee communities about the signs and treatment methods and appropriate care seeking behavior for children at risk of Acute Respiratory Infections (ARI): combination of coughing and difficulty breathing in children.
- Explore further practices, knowledge as well as barriers of both communities regarding children's vaccination.
- Explore patterns and trends in routine immunization in the SDC clinical data. Consider improved referral or reminder systems.

Reproductive Health

- Determine what are the causes behind respondents being less comfortable with accessing reproductive health services (7.8% decrease)
- Explore barriers to giving birth at a health facility, and respondents' concerns around transportation.
- Explore further practices and barriers around ante-natal care in both host and refugee communities:
 - Determine reasons behind less respondents reporting to have seen someone for ANC during their last pregnancy (7.8% decrease)
 - Determine reasons and practices for ANC happening in respondent's homes (24.7% increase between 2016 and 2017) especially for vulnerable Lebanese households, since Medair's community midwives only visit Syrian households in their residence for ANC, and understand what respondents consider to be ANC and who provides it at residences.
- Explore further practices and barriers around post-natal care in both host and refugee communities, especially since some of the questions in the PNC modules changed between 2016 and 2017:
 - Determine knowledge and practices and explore reasons for the reported increase of PNC services available in the community (16.5% increase)
 - Determine reasons and practices for PNC happening in respondent's homes (50.7% increase between 2016 and 2017), and understand what respondents consider to be PNC and who provides it at residences.

• Determine frequency and timeframe of PNC checks when the delivery happens at a hospital or at home.

Family Health

- Explore further which services are considered to be psychosocial support services by the host and refugee communities: for example, specialized hospitals were less reported in 2017 (10.0% decrease)
- Determine what are the causes behind respondents being less comfortable with accessing psychosocial support services (23.5% decrease)