





UNRWA's e-MCH app (digital MCH Handbook)

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UN Relief and Works Agency for Palestine Refugees in the Near East (UNRWA)

What is Palestine refugees & UNRWA?

Palestine refugees

• 5.7 million in Gaza, Jordan, Lebanon, Syria and West Bank including East Jerusalem

• UNRWA

Support & protect Palestine Refugees since 1950.

UNRWA's health services

- Primary health care services with 140 clinics
- MCH, NCD (diabetes), outpatients, etc.



Why UNRWA has MCH handbook?



JICA support

Started in Palestine in 2008

UNRWA commitment

- In all fields in 2010
- Used by all 90,000 new mothers

UNRWA's health services

• Deeply loved by mothers (photo of Palestine refugee mother in refugee...)

Why have we digitalized MCH handbook?

Community is digitalized

- Smartphone everywhere (Facebook® & WhatsApp®)
- 70-80% with smartphones, 60-70% with internet
- UNRWA is digitalized
 - EMR (e-health) in all clinics with 3M+ patients records
- So, we digitalized MCH handbook to
 - provide access to educational information and personal health records
 - send reminders of appointment and function as a communication
- Worked with JICA & delivered in Jordan in 2017





How many mothers used e-MCH app?

No. of persons registered the e-MCH app

UNRWA fields	Annual deliveries	Up to 2018	2019	2020	2021	total
Jordan	23,000	35,567	20,040	10,744	10,239	76,590
Gaza	40,000	4,042	66,514	14,164	2,394	87,114
Lebanon	5,000	Not yet	6,888	1,317	167	8,372
Syria	6,000	Not yet	2,231	1,103	224	3,558
West Bank	15,000	Not yet	7,453	2,010	1,037	10,536
Total	86,000	39,609	103,126	29,338	14,061	186,170

How much mothers are benefitted?

Education information

Digitalized info are available (more than MCH handbook)





الرضاعة الطبيعية

Personal medical records

Digitalized medical records are available (on top of ANC/PNC)

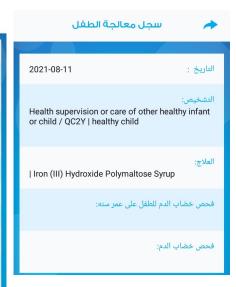
ANC record



PNC record

*	الرعاية بعد الولادة
5/07/1-11	تاريح الزبارة
11	عدد الأيام بعد الولادة:
خطر	درجة الخطورة في أخر زيارة:
1	عدد الزيارات لمركز الرعاية:
4/1-11	التاريخ المتوقع للولادة
5/5-11	الناريخ الضعلي للولادة
H	مدة الحمل بالأسابيع:
۲,۵	وزن الطفل عند الولادة :
طبيب	المُشْرِفَ على الولادة :
نغم	نقل البم
أيادن تعم	تشتجات خلال اقمل وبعد الولادة بعشرة

Child outpatient



Baby care

How much mothers are benefitted?

Notification

Reminds are sent a day before,
 an hour and five minutes before



Communications

- Awareness messages:
 136,671 sent in 2019 and 510,214 in 2020.
- Inquiries started in March 2021 so far 459 queries
- COVID-19 messages
 - Lockdown periods
 - medicines home delivery services
 - Hygiene awareness and videos
 - Available services including Telemedicine
 - Vaccinations Campaigns

What are the challenges?

Monitoring of utilization

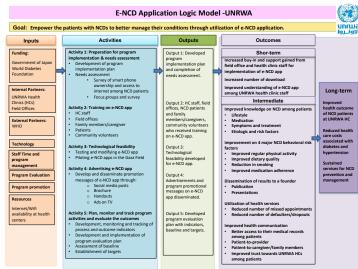
- 186,170 persons registered!
- App system does not tell # & frequencies of utilization

e-NCD smartphone app

- Recently developed but has the same system limitation.
- Among those 73 downloaded
 - Daily: 3 (4.1%)
 - 1-3/week: 5 (6.8%)
 - 1-3/month: 13 (17.8%)
 - Not yet: 50 (68.5%)
 - No: 2 (2.7%)

Monitoring of impact

- Need to access acceptance and behavior changes etc. by e-MCH
- No tools yet as frequencies of use is not yet measurable.
- e-NCD smartphone app
 - Developed detailed logframe though...



What have we learned from e-MCH app?

What worked well?

- People like smartphone apps
 - 186,170 registered!
- EMR presence will help
 - EMR transfer data to e-MCH app
- Notifications & communication
 - Appointment
 - Covid-19 information

What needs to work better?

- Logic model in advance
 - We did it for e-NCD app
- Systems readiness to monitor
 - Systems should monitor utilization
- More detailed socio-cultural & digitalization assessment
 - Who owns & uses smartphones...

A Palestine refugee mother living in Syria explaining her experiences using the E-MCH mobile application