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USAID Health Services Quality Accelerator Activity Summary Report: Clinical Guidelines and Protocols for COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period

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AOR Name: Dr. Nagham Abu Shaqra

Submitted by: Dr. Issam El Adawi, Acting Chief of Party
University Research Co., LLC
Address: Wadi Saqra, Arar Street, Building No. 201
P.O. Box: 851275, Sweifieh 11185, Amman, Jordan
Email: ieladawi@urc-chs.com

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CONTENTS

ABBREVIATIONS	3
INTRODUCTION	4
WORKSHOP DETAILS	5
WORKSHOP PURPOSE	5
WORKSHOP LEARNING OBJECTIVES	5
WORKSHOP SESSIONS	5
WORKSHOP OUTCOMES	5
PRE- AND POST-TEST ANALYSIS	6
RECOMMENDATIONS	6
ANNEXES	7
ANNEX I: AGENDA.....	7
First Workshop: May 30, 2022.....	7
Second Workshop: June 15, 2022.....	8
Third Workshop: June 22, 2022	10
ANNEX II: KEY PARTICIPANTS.....	12
ANNEX III: WORKSHOP EVALUATION.....	13
Participant Evaluations.....	13
Training Workshop Venue.....	13
Training Workshop Design.....	14
Training Content.....	15
ANNEX IV: PARTICIPANT LIST PER SESSION	16

ABBREVIATIONS

CDC	United States Centers for Disease Control and Prevention
GESI	Gender Equality and Social Inclusion
HSQA	Health Services Quality Accelerator
MOH	Ministry of Health
OB/GYN	Obstetrics-Gynecology
RMNCH	Reproductive, Maternal, Newborn, and Child Health
RMS	Royal Medical Services
USAID	United States Agency for International Development
WHO	World Health Organization

INTRODUCTION

The USAID Health Services Quality Accelerator Activity is a five-year activity (August 4, 2021, to August 3, 2026) with the overall strategic objective to sustain and advance improvements in equitable reproductive, maternal, newborn, and child health (RMNCH) outcomes, specifically targeting disadvantaged segments of the population. The Activity is employing new and innovative approaches to achieve two expected results: (1) improved quality of equitable RMNCH services and (2) strengthened Ministry of Health (MOH) leadership and governance capacity to lead for improving the quality of care.

The Activity, in collaboration with other USAID implementing partners, is supporting the “National Coronavirus Disease 2019 (COVID-19) Preparedness and Response Plan for Jordan,” mainly Pillars 7, 8, and 9 of the plan. The overall objective is to strengthen the response for preventing transmission and managing cases of COVID-19 at the governorate and facility levels. The key areas of focus include mapping RMNCH and COVID-19 services; implementing facility (hospitals and health centers) response action plans; integrating counseling on COVID-19 prevention, home care, and vaccination within the delivery of primary health services; and developing a COVID-19 case management guide, especially for pregnant women and children.

Under Pillar 7, “Case Management,” the Activity updated the “Clinical Guidelines and Protocols for COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period” in collaboration with the MOH. These guidelines were developed with USAID support in 2020, and the Activity supported the MOH in updating it based on new evidence and the latest recommendations by the World Health Organization (WHO) and the U.S Centers for Disease Control and Prevention (CDC).

The Activity trained health care providers in managing COVID-19 cases in obstetric care using the “Clinical Guidelines and Protocols for COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period.” The training engaged 65 health providers (65% female) from 14 public hospitals, six RMS hospitals, and two university hospitals.

WORKSHOP DETAILS

WORKSHOP PURPOSE

The purpose of these workshops was to help standardize COVID-19 case management in obstetric care.

WORKSHOP LEARNING OBJECTIVES

At the end of the workshop, participants were expected to be able to:

- Classify the severity of COVID-19 during and after pregnancy
- Apply therapeutic treatment for pregnant women infected with COVID-19 appropriately
- Personalize proposed WHO antenatal care visits scheduled during the COVID-19 pandemic
- Give appropriate counseling to women and their families
- Support standard precautions and COVID-19 vaccination during pregnancy
- Define the safety profile for interventions applied to pregnant women infected with COVID-19

WORKSHOP SESSIONS

The training workshops were designed to build participants' capacity regarding COVID-19 case management for women during pregnancy. The workshops used presentations and group discussions highlighting participants' previous experiences when dealing with pregnant women with COVID-19. The workshops also focused on equipping participants with essential skills and theoretical knowledge to approach women with confirmed COVID-19 and to apply best practices as well as respectful antenatal care.

Additionally, the workshops concentrated on the importance of COVID-19 vaccinations for women during pregnancy and breastfeeding, as they are considered a high-risk group for severe COVID-19 infection.

The USAID Health Services Quality Accelerator Activity developed the training curriculum and adopted adult learning interactive methodologies: problem-based learning principles, a critical reasoning approach, case studies, videos, and evidence-based critical-care practice elements. The workshop sessions addressed these key topics:

- Background on human coronaviruses
- COVID-19 and pregnancy
- Precautions and prevention measures, including vaccination during pregnancy and breastfeeding
- The initial approach and classification for pregnant women who are suspected or confirmed to have COVID-19
- Antenatal care during the COVID-19 pandemic
- Inpatient care for pregnant women with confirmed COVID-19
- Intrapartum and postpartum care for pregnant women with confirmed COVID-19
- Therapeutic treatment and COVID-19 during pregnancy
- Standard precautions

WORKSHOP OUTCOMES

The workshops built the capacity of health care providers on the “Clinical Guidelines and Protocols for COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period.” and enhanced their ability to deal with COVID-19 pregnant women in different levels of the health system (primary and comprehensive health facilities as well as hospitals). According to pre-

workshop and post-workshop assessments administered to all participants, the training enhanced their skills and knowledge in recognizing symptoms associated with COVID-19 during pregnancy, delivering appropriate treatment, and applying evidence-based safety measures during intrapartum care. These results will contribute to reducing maternal morbidity, maternal mortality, and the rate of stillbirth associated with COVID-19 during pregnancy.

PRE- AND POST-TEST ANALYSIS

The results of the post-test assessments showed an average of 68% improvement in the participants' knowledge compared to the pre-test assessment. Both the post-test and a complementary pre-test asked participants questions concerning COVID-19's transmission mode, risk in pregnant women compared to nonpregnant women, complications in pregnancy, and effect on maternal mortality in Jordan. Furthermore, the test asked about the safety of vaccinations during pregnancy and therapeutic treatment options for COVID-19 in pregnancy in deferent scenarios. These questions reflect a range of clinical expertise among maternal and child health service providers (physicians, nurses, and midwives) — expertise in COVID-19 generally and in pregnant women specifically.

Each test had 10 multiple-choice questions. The lowest pre-test score was 2, while the highest was 9, and the lowest post-test score was 5, while the highest was 10. Finally, the mean pre-test score was 5.3, while the mean post-test score was 8.9.

The wide gap in scores was due to differences in interests and experiences among participants, but significant improvements were observed between the pre- and post-test scores overall.

RECOMMENDATIONS

- Scale up the training to include additional facilities from all health sectors
- Encourage participants who attended the workshop to share the “Clinical Guidelines and Protocols for COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period” in their health facilities

ANNEXES

ANNEX I: AGENDA

First Workshop: May 30, 2022

Trainers:

- **Dr. Ahmad Abdulla**, [REDACTED]
- **Dr. Suha Khalifeh**, USAID Health Services Quality Accelerator Activity Consultant Family Medicine Specialist
- **Amani Al-Khawaja**, [REDACTED], QI Health Facility Officer
- **Anas Shtewi**, [REDACTED]

Time	Session	Speaker
09: 00 a.m. – 09: 30 a.m.	Registration	
09: 30 a.m.– 09:45 a.m.	Welcome Remarks and Overview of HSQA	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist
9:45 a.m. – 10: 10 a.m.	Introduction of Facilitators and Participants Workshop Purpose Workshop Learning Objectives Ground Rules	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist
10:10 a.m. – 10:20 a.m.	Pre-Test	
10:20 a.m. – 10:45 a.m.	Mainstreaming Gender Equality and Social Inclusion (GESI) Within COVID-19 Case Management for Women During Pregnancy	Anas Shtewi , USAID Health Services Quality Accelerator Activity, Gender and Social Inclusion Advisor
10:45 a.m. – 11:00 a.m.	Background About Human Coronaviruses	Dr. Suha Khalifeh , USAID Health Services Quality Accelerator Activity Family Medicine Specialist, HSQA Consultant
11:00 a.m. – 11:15 a.m.	COVID-19 and Pregnancy	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist
11:15 a.m. – 11:45 a.m.	Coffee Break	
11:45 a.m. – 12:10 p.m.	Precautions and Prevention Measures for Pregnant Women	Dr. Suha Khalifeh , USAID Health Services Quality Accelerator Activity

	During the COVID-19 Pandemic	<i>Family Medicine Specialist, HSQA Consultant</i>
12:10 a.m. – 12:20 p.m.	Initial Approach and Classification for Pregnant Women Who Are Suspected or Confirmed to Have COVID-19	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
12:20 p.m. – 1:20 p.m.	Antenatal Care During the COVID-19 Pandemic Inpatient Care for Pregnant Women With Confirmed COVID-19	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
01:20 p.m.– 01:40 p.m.	Coffee Break	
01:40 p.m. – 02:30 p.m.	Intrapartum and Postpartum Care for Pregnant Women With Confirmed COVID-19 Therapeutic Treatment and COVID-19 in Pregnancy	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
02:30 p.m. – 02:45 p.m.	Standard Precautions (Videos and Presentation)	Amani Al-Khawaja, USAID <i>Health Services Quality Accelerator Activity, QI Health Facility Officer</i>
02:45 p.m. – 3:00 p.m.	Case Study	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
03:00 p.m. – 03:30 p.m.	Post-Test and Workshop Evaluation Form	
03:30 p.m. – 04:00 p.m.	Lunch	

Second Workshop: June 15, 2022

Trainers:

- **Dr. Ahmad Abdulla,** [REDACTED]
- **Dr. Suha Khalifeh,** [REDACTED] Consultant [REDACTED]
- **Anas Shtewi,** [REDACTED]
- **Sonya Al-Fares,** [REDACTED], QI Health Facility Officer

Time	Session	Speaker
09:00 a.m. – 09:30 a.m.	Registration	
09:30 a.m. – 09:45 a.m.	Welcome Remarks and Overview of HSQA	Zaid Al Halawani , USAID Health Services Quality Accelerator Activity, RMNCH/ QI Specialist
09:45 a.m. – 10:10 a.m.	Introduction of Facilitators and Participants Workshop Purpose Workshop Learning Objectives Ground Rules	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCH/ QI Specialist
10:10 a.m. – 10:20 a.m.	Pre-Test	
10:20 a.m. – 10:45 a.m.	Mainstreaming GESI Within COVID-19 Case Management for Women During Pregnancy	Anas Shtewi , USAID Health Services Quality Accelerator Activity, Gender and Social Inclusion Advisor
10:45 a.m. – 11:00 a.m.	Background About Human Coronaviruses	Dr. Suha Khalifeh , USAID Health Services Quality Accelerator Activity Family Medicine Specialist, HSQA Consultant
11:00 a.m. – 11:15 a.m.	COVID-19 and Pregnancy	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCH/ QI Specialist
11:15 a.m. – 11:45 a.m.	Coffee Break	
11:45 a.m. – 12:10 p.m.	Precautions and Prevention Measures for Pregnant Women During the COVID-19 Pandemic	Dr. Suha Khalifeh , USAID Health Services Quality Accelerator Activity Family Medicine Specialist, HSQA Consultant
12:10 a.m. – 12:20 p.m.	Initial Approach and Classification for Pregnant Women Who Are Suspected or Confirmed to Have COVID-19	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCH/ QI Specialist
12:20 p.m. – 1:20 p.m.	Antenatal Care During the COVID-19 Pandemic Inpatient Care for Pregnant Women With Confirmed COVID-19	Dr. Ahmad Abdulla , USAID Health Services Quality Accelerator Activity, RMNCH/ QI Specialist
01:20 p.m. – 01:40 p.m.	Coffee Break	

01:40 p.m. – 02:30 p.m.	Intrapartum and Postpartum Care for Pregnant Women with Confirmed COVID-19 Therapeutic Treatment and COVID-19 in Pregnancy	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
02:30 p.m. – 02:45 p.m.	Standard Precautions (Videos and Presentation)	Sonya Al-Fares, USAID Health Services Quality Accelerator Activity, QI Health Facility Officer
02:45 p.m. – 3:00 p.m.	Case Study	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
03:00 p.m. – 03:30 p.m.	Post-Test and Workshop Evaluation Form	
03:30 p.m. – 04:00 p.m.	Lunch	

Third Workshop: June 22, 2022

Trainers:

- **Dr. Ahmad Abdulla,** [REDACTED]
- **Anas Shtewi,** [REDACTED]
- **Wafa Karadsheh,** [REDACTED]

Time	Session	Speaker
09:00 a.m. – 09:30 a.m.	Registration	
09:30 a.m. – 09:45 a.m.	Welcome Remarks and Overview of HSQA	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
9:45 a.m. – 10:10 a.m.	Introduction of Facilitators and Participants Workshop Purpose Workshop Learning Objectives Ground Rules	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
10:10 a.m. – 10:20 a.m.	Pre-Test	
10:20 a.m. – 10:45 a.m.	Mainstreaming GESI Within COVID-19 Case Management for Women During Pregnancy	Anas Shtewi, USAID Health Services Quality Accelerator Activity, Gender and Social Inclusion Advisor
10:45 a.m. – 11:00 a.m.	Background About Human Coronaviruses	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>

11:00 a.m. – 11:15 a.m.	COVID-19 and Pregnancy	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
11:15 a.m. – 11:45 a.m.	Coffee Break	
11:45 a.m. – 12:10 p.m.	Precautions and Prevention Measures for Pregnant Women During the COVID-19 Pandemic	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
12:10 a.m. – 12:20 p.m.	Initial Approach and Classification for Pregnant Women Who Are Suspected or Confirmed to Have COVID-19	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
12:20 p.m. – 1:20 p.m.	Antenatal Care During the COVID-19 Pandemic Inpatient Care for Pregnant Women With Confirmed COVID-19	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
01:20 p.m.– 01:40 p.m.	Coffee Break	
01:40 p.m. – 02:30 p.m.	Intrapartum and Postpartum Care for Pregnant Women With Confirmed COVID-19 Therapeutic Treatment and COVID-19 in Pregnancy	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
02:30 p.m. – 02:45 p.m.	Standard Precautions (Videos and Presentation)	Wafa Karadsheh, USAID <i>Health Services Quality Accelerator Activity, QI Health Facility Officer</i>
02:45 p.m. – 3:00 p.m.	Case Study	Dr. Ahmad Abdulla, USAID <i>Health Services Quality Accelerator Activity, RMNCHI/ QI Specialist</i>
03:00 p.m. – 03:30 p.m.	Post-Test and Workshop Evaluation Form	
03:30 p.m. – 04:00 p.m.	Lunch	

ANNEX II: KEY PARTICIPANTS

USAID Health Services Quality Accelerator conducted three training sessions in Amman, Irbid, and Aqaba Governorates during May and June 2022. The total number of participants was 65 trainees representing MOH (43), RMS (18), and university hospitals (4).

Trainees Distributed by Working Centers and Organization

Hospitals (MOH)	MOH	RMS	University Hospitals	Grand Total
Al Bashir Hospital	3	0	0	3
Al-Eman Hospital	2	0	0	2
Al-Nadeem Hospital	5	0	0	5
Dr. Jamil Tutanji Hospital	1	0	0	1
Ghor Al-Safi	2	0	0	2
Jabal Al-Amir Faisal	2	0	0	2
Jarash Hospital	5	0	0	5
Karak Hospital	4	0	0	4
Mafraq OB/GYN Hospital	3	0	0	3
Prince Hussein Bin Abdullah II Hospital	3	0	0	3
Princess Rahma / Bade'ah Hospital	4	0	0	4
Queen Rania Hospital	2	0	0	2
Ramtha Hospital	3	0	0	3
Zarqa New Governmental Hospital	4	0	0	4
Subtotal				43
Hospitals (University)				
Jordan University Hospital	0	0	1	1
King Abdullah University Hospital	0	0	3	3
Subtotal				4
Hospitals (RMS)				
King Hussein Medical City	0	3	0	3
Prince Hashem bin Abdallah II Hospital	0	5	0	5
Prince Rashed bin Al-Hassan Hospital	0	3	0	3
Prince Zaid bin Al-Hussein	0	1	0	1
Princess Haya bint Al-Hussein Hospital	0	4	0	4
Queen Alia Hospital	0	1	0	1
Subtotal				17
Medical Center (RMS)				
Al-Quwaira Comprehensive Military Medical Center	0	1	0	1
Subtotal				1
Grand Total	43	18	4	65

ANNEX III: WORKSHOP EVALUATION

A total of 65 participants from MOH (43), RMS (18), and university (4) hospitals attended the three one-day training workshops titled “COVID-19 Case Management for Women During Pregnancy, Childbirth, and the Immediate Postpartum Period.” Of these, 65% (n = 42) were female, while 35% (n = 23) were male.

Participant Evaluations

Of the attendees, 97% (n=63) filled out the workshop evaluation form at the end of the sessions. The graphs below give more details about the workshop evaluation results.

Training Workshop Venue

Figure III.1

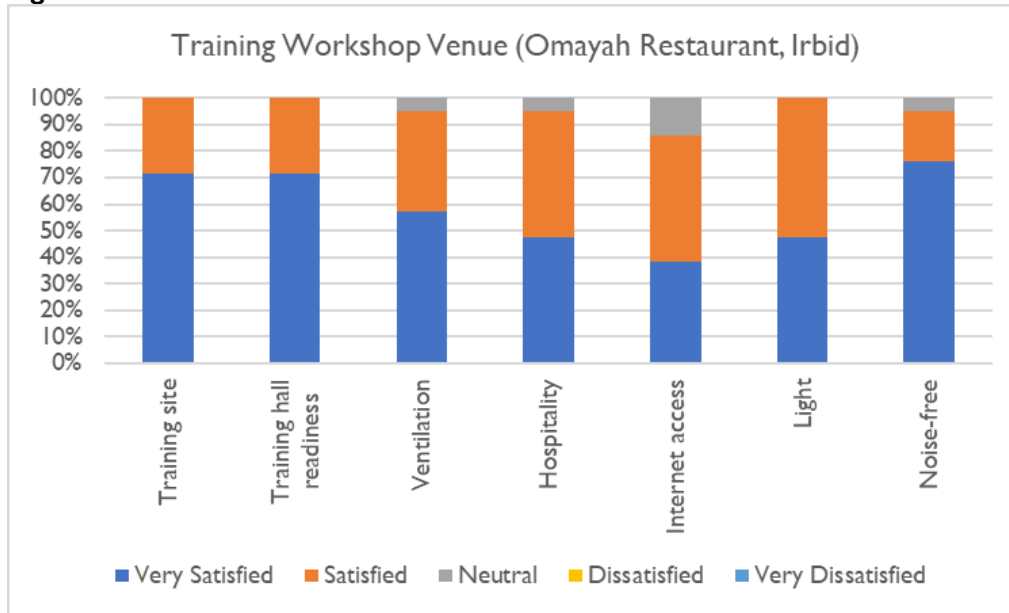


Figure III.2

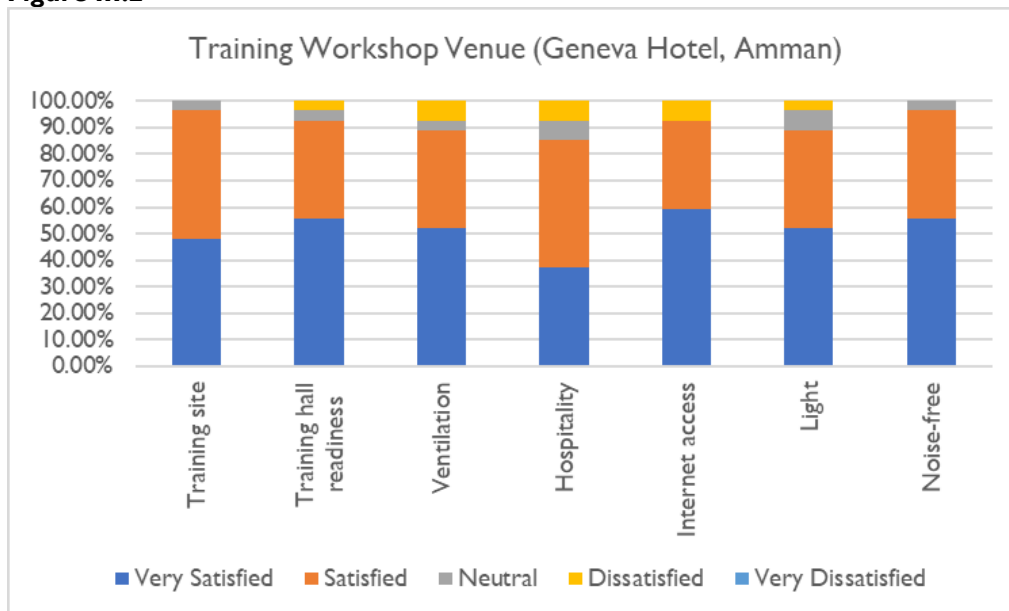
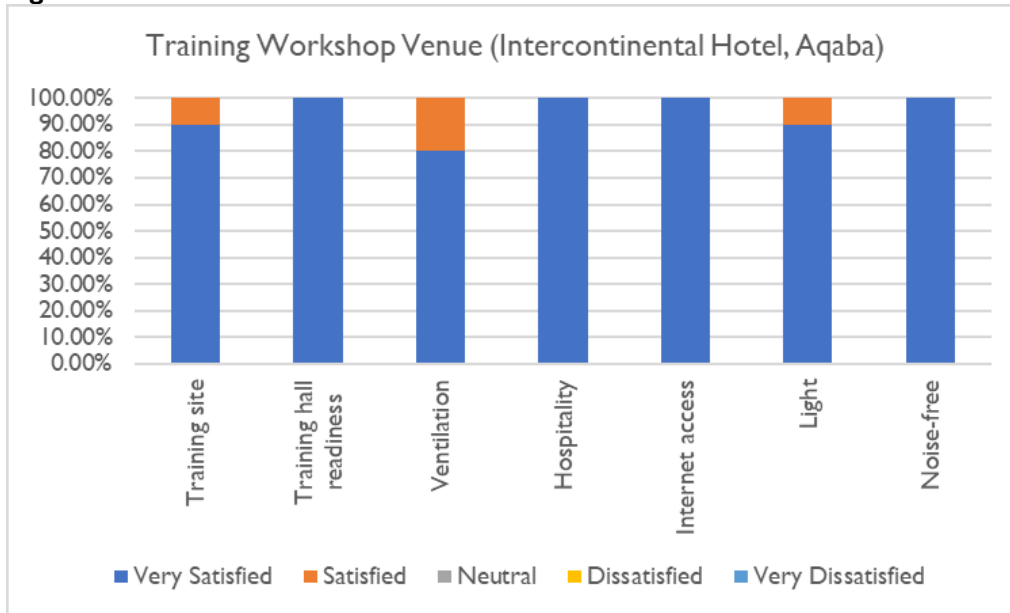
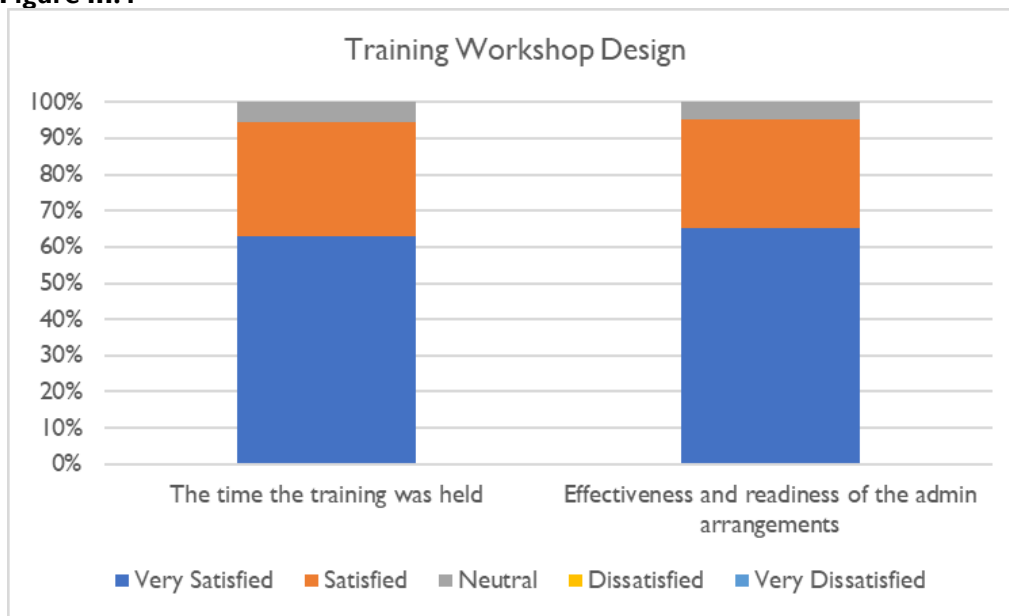


Figure III.3



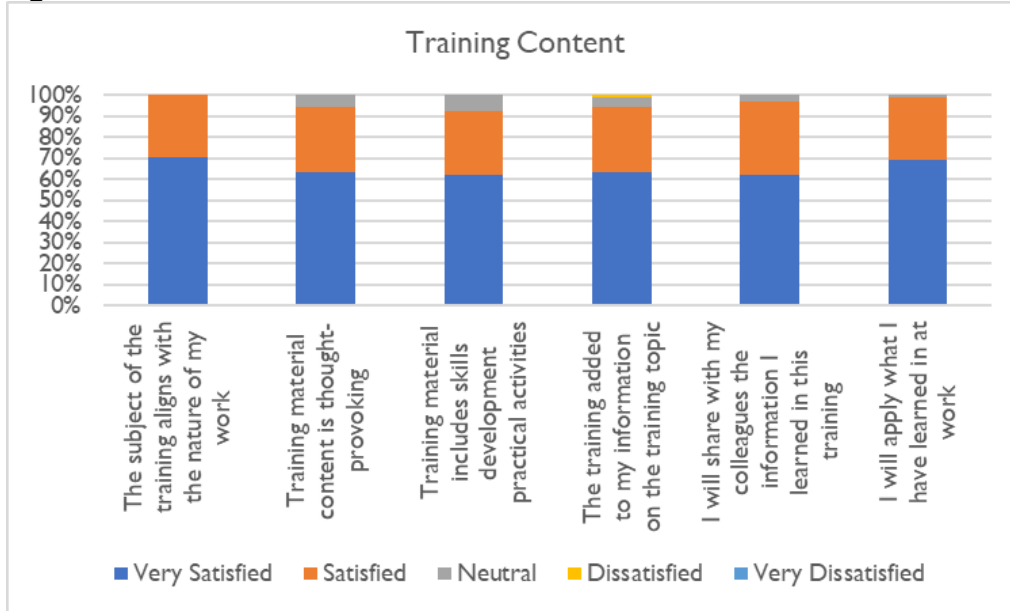
Training Workshop Design

Figure III.4



Training Content

Figure III.5



ANNEX IV: PARTICIPANT LIST

Trainee Name	Sex	Position	Specialty	Organization	Working Center	Governorate
شريفة علي عبدالله العبدلله	Female	OB/GYN Department Head	Midwife	University of Jordan	King Abdullah University Hospital	Irbid
أغر سالم سلمان خليف	Male	OB/GYN Resident	OB/GYN Resident	MOH	Al-Eman Hospital	Ajloun
ميسر سعيد شطناوي	Female	OB/GYN Department Head	Midwife	MOH	Ramtha Hospital	Irbid
زهور سالم سليمان	Female	OB/GYN Department Head	Midwife	MOH	Mafrq OB/GYN Hospital	Mafrq
الاء علي سليمان الغزو	Female	OB/GYN Specialist	OB/GYN Specialist	MOH	Princess Rahma / Bade'ah Hospital	Irbid
محمد جمال محمد خضيرات	Male	OB/GYN Specialist	OB/GYN Specialist	RMS	Prince Rashed bin Al-Hassan Hospital	Irbid
سناء احمد عبد الحميد الاحمد	Female	OB/GYN Department Head	Midwife	RMS	Princess Haya bint Al-Hussein Hospital	Ajloun
امنة يوسف فرحان الصرايرة	Female	OB/GYN Department Head	Midwife	RMS	Prince Rashed bin Al-Hassan Hospital	Irbid
نهاد ابراهيم صالح معلمي	Female	Midwife	Midwife	MOH	Princess Rahma / Bade'ah Hospital	Irbid
الاء انيس الصابري	Female	OB/GYN Specialist	OB/GYN Specialist	MOH	Jarash Hospital	Jarash
محمد غازي محمود النجار	Male	OB/GYN Resident	OB/GYN Resident	MOH	Princess Rahma / Bade'ah Hospital	Irbid
مثنى نظمي	Male	OB/GYN Specialist	OB/GYN Specialist	RMS	Prince Rashed bin Al-Hassan Hospital	Irbid
حسين محمد القضاة	Male	OB/GYN Specialist	OB/GYN Specialist	RMS	Princess Haya bint Al-Hussein Hospital	Ajloun
يسري ناصر سعيد غزالي	Female	Midwife	Midwife	MOH	Jarash Hospital	Jarash
ثروة دخل الله يوسف	Female	Midwife	Midwife	MOH	Jarash Hospital	Jarash
موفق عايد خويله	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Ramtha Hospital	Irbid

نرمين محمود احمد القضاة	Female	Midwife	Midwife	MOH	Al-Eman Hospital	Ajloun
انور صالح محمد	Male	OB/GYN Resident	OB/GYN Resident	MOH	Mafraq OB/GYN Hospital	Mafraq
انوار عبدالكريم خلف الهزايمة	Female	OB/GYN Resident	OB/GYN Resident	MOH	Jarash Hospital	Jarash
اسماء محمود حسن	Female	OB/GYN Specialist	OB/GYN Specialist	MOH	Jarash Hospital	Jarash
رنا رشاد ايوب العودة الله	Female	OB/GYN Specialist	OB/GYN Specialist	University of Jordan	King Abdullah University Hospital	Irbid
منجد احمد بطاينة	Male	OB/GYN Specialist	OB/GYN Specialist	University of Jordan	King Abdullah University Hospital	Irbid
هيفاء عقاب عبدالقادر الصمادي	Female	OB/GYN Resident	OB/GYN Resident	RMS	Princess Haya bint Al-Hussein Hospital	Ajloun
ميادة خالد محمد	Female	OB/GYN Resident	OB/GYN Resident	MOH	Ramtha Hospital	Irbid
ابراهيم محمود الشبول	Male	OB/GYN Department Head	OB/GYN Specialist	MOH	Mafraq OB/GYN Hospital	Mafraq
هدى محمد بلقاسم يحيى	Female	OB/GYN Resident	OB/GYN Resident	RMS	Princess Haya bint Al-Hussein Hospital	Ajloun
حذيفه ايمن عادل الناصر	Male	OB/GYN Resident	OB/GYN Resident	MOH	Princess Rahma / Bade'ah Hospital	Irbid
كريمة عطية ابراهيم الراعي	Female	Labor Room Head	Nurse	University of Jordan	Jordan University Hospital	Amman
رائد خالد رشيد عبدالفتاح	Male	OB/GYN Department Head	OB/GYN Specialist	MOH	Zarqa New Governmental Hospital	Zarqa
محمد ابو عيشه	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Prince Hussein Bin Abdullah II Hospital	Balqa
ختمه سلامه الحمادين	Female	Labor Room Head	Midwife	MOH	Al-Nadeem Hospital	Madaba
ختام عبدالله ابو عويضة	Female	Midwife	Midwife	MOH	Prince Hussein Bin Abdullah II Hospital	Balqa
اريج فايز حسن مصطفي	Female	Head Of OB/GYN Midwives	Midwife	RMS	King Hussein Medical City	Amman
سمر يوسف	Female	Head of section	Midwife	MOH	Al-Nadeem Hospital	Madaba

فاديه عمر مصطفى يوسف	Female	Labor Room Head	Midwife	MOH	AL-Bashir Hospital	Amman
الاء محمد عقله العمري	Female	Midwife	Midwife	RMS	Queen Alia Hospital	Amman
مرام عادل نايف زيد الكيلاني	Female	OB/GYN Department Head	Registered Nurse	MOH	Jabal Al-Amir Faisal	Zarqa
غاده كامل نايف احمد	Female	Head of Nurse	Midwife	MOH	Prince Hussein Bin Abdullah II Hospital	Balqa
مؤيد محمد العواشرة	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Zarqa New Governmental Hospital	Zarqa
هنا خلف سليم المصادرة	Female	OB/GYN Department Head	Midwife	MOH	Karak Hospital	Karak
جيهان ضيف الله سليمان المراعبة	Female	Midwife	Midwife	MOH	Zarqa New Governmental Hospital	Zarqa
منال محمد كمال سالم البعالي	Female	OB/GYN Department Head	Midwife	MOH	Dr. Jamil Tutanji Hospital	Amman
الاء محمد البطوش	Female	OB/GYN Resident	OB/GYN Resident	RMS	King Hussein Medical City	Amman
سليمان ابو محفوظ	Male	OB/GYN Resident	OB/GYN Resident	MOH	Al-Nadeem Hospital	Madaba
عبدالحافظ صالح عبدالحافظ الجريري	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Al-Nadeem Hospital	Madaba
ضياء بدر الدين القطاونة	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Ghor Al-Safi	Karak
ربي نبيل ناصر عماري	Female	OB/GYN Resident	OB/GYN Resident	MOH	Karak Hospital	Karak
ايمن عبدالاله سمرين	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	Zarqa New Governmental Hospital	Zarqa
رنا احمد الطراونة	Female	OB/GYN Resident	OB/GYN Resident	MOH	Jabal Al-Amir Faisal	Zarqa
باسمه عبدالهادي عبدالعزيز خطيب	Female	OB/GYN Specialist	OB/GYN Specialist	MOH	AL-Bashir Hospital	Amman
وسيم سعدي طبازة	Male	OB/GYN Resident	OB/GYN Resident	MOH	Karak Hospital	Karak

ابراهيم سلامه ابراهيم	Male	OB/GYN Resident	OB/GYN Resident	MOH	Al-Nadeem Hospital	Madaba
عمر الرواشدة	Male	OB/GYN Resident	OB/GYN Resident	MOH	Ghor Al-Safi	Karak
قتيبة جاسر محمد السوادقه	Male	OB/GYN Resident	OB/GYN Resident	MOH	Karak Hospital	Karak
حسان ابو جزر	Male	OB/GYN Specialist	OB/GYN Specialist	MOH	AL-Bashir Hospital	Amman
هديل العدوان	Female	OB/GYN Resident	OB/GYN Resident	RMS	King Hussein Medical City	Amman
منى عبدالسلام عبدالله الحجوج	Female	OB/GYN Department Head	Registered Nurse	RMS	Al-Quwaira Comprehensive Military Medical Center	Aqaba
وفاء محمد جمعه بني يونس	Female	Midwife	Midwife	RMS	Prince Hashem bin Abdallah II Hospital	Aqaba
لينا ماجد احمد الفرجات	Female	OB/GYN Resident	OB/GYN Resident	RMS	Prince Hashem bin Abdallah II Hospital	Aqaba
احمد محمد فالح الفرجات	Male	OB/GYN Resident	OB/GYN Resident	RMS	Prince Hashem bin Abdallah II Hospital	Aqaba
خديجه سليم سلمان الخليفات	Female	OB/GYN Department Head	Midwife	RMS	Prince Zaid bin Al-Hussein	Tafila
باسمة احمد	Female	OB/GYN Department Head	OB/GYN Specialist	RMS	Prince Hashem bin Abdallah II Hospital	Aqaba
مها حمد فرج الدواديه	Female	Midwife	Midwife	MOH	Queen Rania Hospital	Petra
خوله سليمان الهلالات	Female	OB/GYN Department Head	Midwife	MOH	Queen Rania Hospital	Maan
شيرين محمود مبارك العوضى	Female	OB/GYN Specialist	OB/GYN Specialist	RMS	Prince Hashem bin Abdallah II Hospital	Aqaba