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Sexual and Reproductive Health Programme

ASSESSMENT TOOL FOR THE QUALITY OF OUTPATIENT ANTEPARTUM AND POSTPARTUM CARE FOR WOMEN AND NEWBORNS

2013

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Keywords

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Abbreviations

AIDS - acquired immunodeficiency syndrome AFV - amniotic fluid volume ALT - alanine aminotransferase ANC - antenatal care AST - aspartate aminotransferase CMV - cytomegalovirus DBP - diastolic blood pressure DHS - demographic and health survey EPC - effective perinatal care FMC - family medicine centers GBS - group B streptococci GERD - gastro esophageal reflux disease Hb - hemoglobin HELP - syndrome: H - hemolysis; EL - elevated liver enzymes; LP - low platelet count HIV - Human immunodeficiency virus infection IMPAC - Integrated Management of Pregnancy and Childbirth IMCI - Integrated Management of Childhood Illness IM - intramuscular IV - intravenous IUD - intrauterine device JSI/USAID - John Snow Incorporate /United States Agency for International Development LAM - lactational amenorrhea method MCH - maternal and child health program MoH - Ministry of Health MPS - Making Pregnancy Safer NICE - National Institute for health and clinical excellence NGO - non-governmental organisation Ob-Gyn - obstetrician &gynaecologist ORS - oral rehydration solutions PHC - primary health care PMTCT - preventing mother-to-child transmission of HIV PTD - preterm delivery SBP – systolic blood pressure SRH - sexual and reproductive health STI- sexually transmitted infection STD - sexually transmitted disease TB - tuberculosis USG - ultrasonography WHO - World Health Organization

QoC - quality of care

Introduction

1. Why quality of antenatal and postpartum care matters

"The quality of care provided to the women and infants is a key determinant in maternal outcome and that simple change in practice can save many lives" (1).

The notion that mothers and children are vulnerable groups was central to the primary health care movement launched in Alma-Ata, Kazakhstan, in 1978. Since the inception of the primary health care movement, maternal and child health has formed the backbone of health services that should be integrated, comprehensive, reaching out to all parts of the population. To meet primary health care objectives, health care for women and newborns should be underpinned by reproductive health programmes (such as family planning) and strongly linked with other key primary health care components (immunization, environmental health, nutrition, hygiene, emergencies and child survival), as well as to prevention and treatment of tuberculosis, malaria (in endemic areas), sexually transmitted infections (STIs) and HIV transmission. All of these services can be effectively and efficiently addressed by using maternal and newborn health services as the entry point (2).

Moving towards universal health coverage requires that health systems respond to the challenges of a changing world and growing expectations for better performance. This involves substantial reorientation and reform of the ways health systems operate in society today: those reforms constitute the agenda of the renewal of primary health care (PHC). Quality care requires health services to be organized accordingly, with close-to-client multidisciplinary teams that are responsible for a defined population, collaborate with social services and other sectors, and coordinate the contributions of hospitals, specialists and community organizations. The work done at country level and the analysis of current trends in maternal and neonatal health in the WHO European Region clearly indicate that improving quality of care is a key issue to be addressed to further improve maternal and infant outcomes (3-4).

As the United Kingdom's National Institute for Health and Care Excellence (NICE) guidelines state: pregnancy is a normal physiological process and that, as such, any interventions offered should have known benefits and be acceptable to pregnant women (... women should be the focus of maternity care with an emphasis on providing choice, easy access and continuity of care. Care during pregnancy should enable a woman to make informed decisions, based on her needs, having discussed matters fully with the professionals involved (5).

The organization and content of care during pregnancy and after childbirth was discussed and researched substantially in recent years, as the WHO key document (6) indicates: we have better evidence about what works and what does not work to reduce maternal mortality, and the role that antenatal care can play. Many elements of antenatal care, such as routine monitoring of weight gain and measuring height, have not been shown to have any impact in reducing the risk of serious complications and maternal deaths. The risk approach, adopted as a way of identifying which women are most likely to develop serious complications, has been shown to have only limited effectiveness: most women who go on to develop life-threatening complications had no apparent risk factors; conversely, those identified as being at risk generally end up with uneventful deliveries. Other antenatal interventions, such as detection and treatment of anaemia and management of STDs, offer improvements in health without necessarily any equivalent reduction in the risk of maternal death. It has therefore become clear that antenatal care interventions, in and of it selves, cannot be expected to have significant impact on maternal mortality. There is now broad agreement that the focus of antenatal care interventions should be on improving maternal health, this being both an end in itself and necessary for improving the health and survival of infants. With this improved understanding has come a refocusing of maternal health programmes towards ensuring that women have access to care during the critical period around labour and delivery –when the most deaths occur – coupled with referral for the management of obstetric emergencies. Thus, safe motherhood programmes tend to prioritize the need for skilled care during delivery, including emergency obstetric care, rather than ensuring that all women receive antenatal care (6).

Nonetheless, there are potential benefits to be from some of the elements of antenatal care, and these benefits may be most significant in developing countries where morbidity and mortality levels among reproductive-age women are high. The antenatal period clearly presents opportunities for reaching pregnant women with a number of interventions that may be vital to their health and well-being, and for their infants. For example, if the antenatal period is used to inform women and families about warning signs of potential pregnancy complications and about the risks of delivery, it may provide the route for ensuring that pregnant women do, in practice, deliver with the assistance of a skilled health care provider. The antenatal period provides an opportunity to supply information on birth spacing and family planning, which is recognized as an important factor in improving infant survival.

Better understanding of foetal growth and development and its relationship to the mother's health has resulted in increased attention to the potential of antenatal care as an intervention to improve both maternal and newborn health.

Tetanus immunization during pregnancy can be life-saving for both mother and infant. The prevention and treatment of tuberculosis (TB), malaria among pregnant women, management of anaemia during pregnancy and treatment of STIs can significantly improve foetal outcomes and improve maternal health. Adverse outcomes such as low birth weight can be reduced through a combination of interventions to improve women's nutritional status and prevent infections during pregnancy. More recently, the potential of the antenatal period as an entry point for HIV prevention and care, in particular for the prevention of HIV transmission from mother to child, has led to renewed interest in access to and use of antenatal care services (6).

Most antenatal care programmes in low- income countries were established along the lines of those used in high- income countries, with little adjustment for local conditions. In recent years, the underlying premise of much that is carried out under the heading of antenatal care has been called into question. It has emerged that few of the components of standard antenatal care regimens have been subjected to rigorous scientific evaluation to determine their effectiveness (6).

In 2001, WHO published the conclusions of a randomized controlled trial of a new model of antenatal care (8) and carried out a systematic review of other randomized trials that looked at the effectiveness of different models of antenatal care. This work has led to a growing consensus around key elements of antenatal care that are likely to improve maternal and/or perinatal health outcomes, though it is important to note that these outcomes tend to be either maternal and perinatal health or perinatal survival, not maternal survival. The new WHO model of antenatal care separates pregnant women into two groups: those likely to need only routine antenatal care (some 75% of the total population of pregnant women), and those with specific health conditions or risk factors that necessitate special care (25% of pregnant women). For the first group, a standard programme of four antenatal visits is recommended (with additional visits should conditions emerge which require special care).

The WHO guidelines are also specific as regards the timing and content of antenatal care visits according to gestational age. The guidelines stipulate that "only examinations and tests that serve an immediate purpose and that have been proven to be beneficial should be performed". These examinations include measurement of blood pressure, testing of urine for bacteriuria and proteinuria, and blood tests to detect syphilis and severe anaemia. Routine weight and height measurement at each visit is considered optional. But evidence based programming on the optimal number, timing and content of antenatal visits is not yet routine in most settings.

In practice, indicators of use are easier to define measure and interpret than indicators for access. Data on use of antenatal care are widely available from household surveys. Indicators on use of antenatal care services provide no information on the content or quality of the services. Despite the broad consensus on what the content and quality should be, it is generally recognized that the antenatal care services currently provided in many parts of the world fail to meet the standards recommended by the WHO. Some information on the content of care is now available from recent Demographic and Health Surveys (DHS) which included questions about antenatal interventions such as height and weight checking, blood pressure testing, and blood and urine testing. For the most part, however, the available data do not report on specific interventions or the quality of care. The research and discussion on timing and content continues and a recently updated Cochrane systematic review "Alternative versus standard packages of antenatal care for low-risk pregnancy" (9), using new methods and with additional trial data, has shown a statistically significant increase in perinatal mortality associated with packages of antenatal care that are goal-oriented and based on reduced numbers of clinic attendances. In light of this report, on 9–10 November 2010, the WHO convened a technical consultation to discuss the implications of these findings which reached the following conclusions: in low- and middleincome countries, compared with the standard model of antenatal care, the goal-oriented, reduced-visits care approach was associated with a 15% higher risk of perinatal mortality. The reasons for the higher risk are not yet known. The contents of the antenatal care package may need to be adapted to each country's requirements prior to implementation in order to address relevant background health risks (9). Furthermore, WHO advises that implementation of a complex intervention package such as antenatal care should be monitored and audited with a focus on quality of care, i.e. evidence-based practices that are intended to be delivered through the programme, and maternal and perinatal outcomes, especially stillbirths. WHO plans to produce an updated evidence-based guideline on antenatal care that will be informed by these findings and other systematic reviews of interventions that may be effective in improving perinatal outcome during antenatal care. The updated evidence-based recommendations are likely to be finalized in 2013 (9).

With regards to the period after childbirth, the WHO "Postpartum care for the mother and the newborn" a practical guide takes a comprehensive view of maternal and newborn needs at a time which is decisive for the life and health both of the mother and her newborn. Taking women's own perceptions of their own needs during this period as its point of departure, the text examines the major maternal and neonatal health challenges, nutrition and breastfeeding, birth spacing, immunization and HIV/AIDS before concluding with a discussion of the crucial elements of care and service provision in the postpartum. The document ends with a series of recommendations for this critical but under-researched and under-served period of the life of the woman and her newborn, together with a classification of common practices in the postpartum into four categories: those which are useful, those which are harmful, those for which insufficient evidence exists and those which are frequently used inappropriately (10).

Details on specific components of care at PHC level are included in the Pregnancy Childbirth Postpartum and Newborn Care: a guide for essential practice, WHO Integrated Management of Pregnancy and Childbirth (IMPAC), 2009 (11) and Integrated Management of Childhood Illness (IMCI) guidelines, 2008 (12).

Additional guidance on components, benefits, potential impact, health system requirements needed to support the delivery of the intervention, policy, service delivery, indicators and key supplies and commodities needed at different levels of the health system, were issued in 2010 within the "WHO Packages of interventions for Family Planning, Safe Abortion Care, Maternal, Newborn and Child Health" (13) which summarizes:

Antenatal Care

Components:

- Essential preventive and promotive care in pregnancy including prevention of mother-to-child transmission of HIV (PMTCT);
- Management of complications during pregnancy.

Benefits:

- Improves healthy practices;
- Prevents tetanus, syphilis and anaemia;
- Increases uptake of PMTCT;
- Provides opportunities for preventing malaria.

Postpartum Care Mother

Components:

- Essential promotive and preventive care following childbirth (24 hours to 6 weeks);
- Early identification and appropriate management of complications;
- Family planning/birth spacing;
- Care and counselling for HIV positive mother;
- Support for breast feeding.

Benefits:

- Reduces maternal mortality and morbidity;
- Improves maternal and infant health by promoting birth spacing.

Postpartum Care Newborn

Components:

- Essential preventive interventions for the healthy newborn infant;
- Early identification and management of newborn problems, namely care for prematurely born or low birth weight infants.

Benefits and potential impact:

- Maintains health of the majority of babies born healthy and ensure prompt detection and management of complications or problems and, hence, reduce mortality, morbidity and disabilities;
- It can reduce more than half of neonatal mortality when universally applied, saving up to 2 million newborn lives each year;
- Ensures a good start to life with practices and protections important for health, growth and development later in life.

Additional technical guidance on the core sexual and reproductive health (SRH) competencies that are desirable for use in PHC is in WHO publication (14). They reflect the attitudes, tasks, knowledge and skills that health personnel in PHC may need, to protect, promote and provide SRH in the community. These competencies serve as the first step for policy-makers, planners, service organizations and academic/ training establishments, to understand and meet both the education/training requirements and the servicedelivery support needed by SRH staff to provide safe, quality SRH care.

2. Methodology of development of Quality of Care (QoC) assessment tools

The primary aim of the WHO antepartum and postpartum care quality assessment tool is to aid ministries of health (MoHs), key partners and stakeholders, to carry out an evaluation of care provided at facility level in a systematic and participatory way, to identify areas that need to be improved and to develop relevant action plans.

The tool, which was developed as a complement to the maternal and neonatal hospital care assessment tool, is primarily designed for country-wide comprehensive assessments of the quality of maternal and neonatal care (15). The assessment of a representative sample (to be determined depending the country's size, structure and distribution of health services) of services providing antepartum and postpartum care, provides results that can be generalized to the whole health network. The tool can also be used in a single facility for internal audit purposes.

The assessment process itself, the assessment findings and the relevant action plan should be seen as a component of a quality improvement strategy. By suggesting specific indicators and a scoring system to monitor quality of care, the tool can be used within performance-based and/or accreditation schemes. The tool is also useful to introduce the concepts of peer review, supportive supervision and professional audit and is an effective way of implementing the WHO guidelines and international standards in the clinical practice.

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The development of the tool stems from the work carried out by the WHO Regional Office for Europe in implementing the Making Pregnancy Safer programme (1-2), and builds on the experience in the use of "Making Pregnancy Safer Assessment tool for the quality of hospital care for mothers and newborn babies" (15) in several countries of the WHO European Region and in some countries in other regions.

Principles of the tool:

The informing principles of the tool are the following:

- based on evidence-based international standards and guidelines;
- capable to guide the collection of key information in a homogeneous and valid way;
- to involve health service managers and health professionals in identifying problems and possible solutions;
- to provide key information regarding quality care to MoH and managers at local level on issues that need to be addressed at higher administrative or policy level;
- to give voice to the users and to allow health managers and professionals to take into account their views in identifying and addressing deficiencies in quality of care.

The tool was also designed to allow a comprehensive assessment of the four key principles identified by the WHO European Strategic Framework for Making Pregnancy Safer (MPS):

- be based on scientific evidence and cost/effective;
- be family centred, respecting confidentiality, privacy, culture, belief and emotional needs of women, families and communities;
- ensure involvement of women in decision-making for options of care;
- ensure a continuum of care from communities to the highest level of care.

Reference standards

The Effective Perinatal Care training package (16), developed by the WHO Regional Office for Europe and JSI/USAID, the WHO IMPAC Manuals developed by the global MPS programme, and other publications (see list of references) are the main source for reference standards. When other sources were used to cover items that are not covered by the above materials, the relevant references are mentioned.

Structure of the tool

The tool is intended to allow an action-oriented careful assessment of all the main areas of which have an impact on quality of antepartum and postpartum care such as infrastructure, availability drugs and supplies, staffing, organization of services, guidelines, case management, information provided to users, referral system, etc. Over 400 items are included.

Sources of information and scoring system

The tool includes four different sources of information: data and statistics, medical records, direct observation, and interviews with staff and with patients/users of the services. Through a combination of different sources of information, the tool allows to single out those areas and specific items that represent an obstacle to deliver quality of care.

Each item is evaluated with the information gathered by different sources to reach an overall score, ranging from 3 to 0:

- 3 = good or standard care
- 2 = need for some improvement to reach standard care (suboptimal care but no significant hazard to health or of basic principles of quality care)
- 1 = need for substantial improvement to reach standard care (suboptimal care with significant health hazards)
- 0 = need for very substantial improvements (totally inadequate care and/or harmful practice with severe hazards to the health of mothers and /or newborns)

3. Main steps for the use of the tool

Adaptation and use

The tool is a generic framework that needs to be adapted to the epidemiology and, even more important, to the health system structure and capacity at country level. The tool was designed to be used in different PHC facilities, such as polyclinics, the outpatient departments of hospitals, including small district hospitals as well as tertiary care centres. It is therefore necessary that the team of national and international assessors, when planning the assessment, identify the sections of the tool to be used in different settings, since not all the antenatal care diagnostic and treatment medical technologies included in the tool may be relevant. In these cases, the corresponding items or sections of the tool will be classified as not applicable (n.a.). The adaptation may include deleting specific items and sections, choosing a different standard (for example, using as a standard the country adaptation of international standards).

Composition of the assessment team

Assessing antenatal and post-partum care requires specific disciplinary backgrounds such as obstetrics, nursing/midwifery, and paediatrics/neonatology, as well as capacity to interview the users of the services, as well as staff members. The composition of the assessment team should therefore reflect the national initiations and include all these competences. The key professional backgrounds should be represented both in the national and in the international components of the assessment team. National assessors need to get acquainted with the assessment tool and methods, as well as background references, prior to the first round of visits, and they must be supervised by experienced international assessors until they are fully acquainted with the tool and have acquired the appropriate principles, skills, practice and attitude of confidential and supportive peer-to-peer assessment.

Organization of the assessment visit

Written information should be sent to all services that will be assessed on the purpose of the assessment and the proposed agenda prior to the visit. The visit starts with an introductory briefing to the staff and managers, on the objectives and methods of the assessment. The presentation should emphasise that the assessment is part of an initiative to support improving the quality of care, that its purpose is to identify areas of care that need to be improved and to identify what actions should be taken at local level and at higher administrative level, including the ministerial level. It should be explained that confidentiality, ethical principles and respect of the rights of patients and the staff are main guiding principles of the assessment. It would be important to ask for collaboration while both staff and users are interviewed about routines and practices in the health facility and that the assessor(s) would like to directly observe clinical practice, examine recent and past clinical records, and logbooks.

The visit covers all relevant aspects of the service, including pharmacy and laboratory where existing and patronage/home visits to newborn babies. The visit is considered over when sufficient information is collected to assess all the items of the tool that are considered applicable to the health service. The duration of the visit will consequently vary, depending on the size of the service, from one to one and half day per facility.

The assessors should establish by direct observation if clinical protocols exist and are implemented, whether drugs equipment and supplies are available, and whether they are actually available for free when they are included in national packages for MCH. They should also verify the quality of the information provided by the hospital staff to patients by checking with patients after the contact.

Feedback at facility level and reporting at country level

A feedback meeting is held in the facility at the end of the assessment and is aimed to involve all staff in discussing the findings and the suggested actions. By its participatory nature, and particularly through its final session, the approach is aimed at building awareness among staff and managers about quality issues as well as the potential for improvement. Page **10** of **84** Interviews with mothers about the quality of care provided to them and their babies will represent a novelty to most professionals. Taking into account the views of pregnant women and mothers on the various aspects of care represents per se a way to promote mother and family-friendly attitudes among staff, to promote health literacy, to involve women into decisions regarding their own health making, and to build awareness among them about their own rights.

After the assessment each facility should receive a full report summarizing findings and recommendations. A comprehensive written report will be prepared and delivered to the MoH for identifying areas for strengthened and priority actions. When developing the report all health facilities should be mentioned to thank the staff for their involvement and time. However barriers are generalised without mentioning specific health facilities.

It is recommended to use the WHO health system framework to frame the recommended actions. This will help harmonize approaches across health facilities and assessors.

Action plan

Standards and assessment tools are essential, but not sufficient *per se* to promote a sustained effort towards quality improvement. A third crucial component of quality development is represented by the existence of driving forces capable to stimulate change.

Since the commitment of managers and health professionals at facility level is a major determinant of change, it is crucial that an action plan, including tasks and responsibilities of the various staff members as integral part of the assessment process. A suggested framework for the definition of an action plan at health facility level is included in the tool.

Debriefing and action plan

- 1. Discuss the main findings of the assessment with the senior management and staff of the health facility, providing details as appropriate to illustrate the point.
- 2. Incorporate the views of pregnant women and mothers who have been interviewed.
- 3. Allow time for managers and staff to present their perception of the findings.
- 4. Discuss what actions, which are under the responsibility of local managers and staff, could be taken to improve the quality of care for those areas and specific items that the assessment identified as most deficient.
- 5. Prioritize actions taking into account the health impact (avoidable morbidity and mortality), and feasibility.
- 6. Develop a plan of action, using the following framework provided at the end of the tool, which includes actions needed, impact on health, feasibility for areas identified as most in need.

Steps

As an example, in the WHO European Region, the quality of care assessment were planned and carried out as follows:

- The tool and methods was introduced by WHO to MoH, and a request followed by MoH was to carry out PHC QoC assessment; possible partners to support this activity were identified, contacted and involved.
- A collaborative effort among MoH and the WHO Regional and Country Office was carried out to identify the team of national experts in line with criteria and experience in implementing evidence based practices and WHO recommendations in maternal and neonatal health care.
- This national team met to get acquainted with the tool and propose adaptation issues, which were discussed with the WHO Regional Office for Europe and international experts.
- After MoH selected the facilities to be assessed, primary health care centers' managers were informed about dates, agenda and scope of the visit.
- A copy of the first section of the PHC assessment tool (table 1) was sent in advance to each of the selected health facilities, with the request to fill using data of the previous year.
- Upon arrival in each site, the assessors' team met local health authorities.
- The visits to each facility started with a plenary meeting with all relevant staff, where the assessment

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team's members introduced themselves and the scope and methods of the visit.

- The optimal duration of the visits was around one to one and half day for each facility assessed, which included feedback meeting with the staff and filling the forms.
- The assessment team members evaluated the relevant areas jointly with PHC staff and according to the assessment tool. The team visited all services, including patronage/home visits for newborn babies and parts of each facility; they met patients and staff, and analyzed in depth statistics, log books and clinical records. They discussed the process of implementation of evidence based practices, contributing factors, difficulties, together with facility's managers and staff. Two/four team members (interviewers) interviewed pregnant women and mothers, as well as health care providers, collected and summarized findings.
- The assessment team met at the end of each facility's visit to discuss findings, to attribute scores (1 hour), and agree on main comments on strengths and areas to be improved.
- At the end of each visit, findings and main recommendations were presented by team members to facility's staff and managers, on main areas (midwifery, obstetrics, neonatology, as well as interviews of mothers and staff), and jointly discussed.
- Based on these, an initial agreement on priority actions for improvement at facility level was discussed and agreed.
- After completing all visits, the assessors met (one day) to compile, compare, discuss and finalize the results, in order to provide to each PHC center an electronic version of the assessment tool, filled with specific, detailed observations, scores and comments, and a cover letter with the summary of priorities for each area and the agreed actions.
- These documents were finalized, after the visit, by the national team, and each one is presented and discussed by assessors team members with staff in each of the facilities assessed.
- The team finally met (half day) to prepare summary of findings and recommendations, which constitute the basis for a written report, and prepare last meeting to present to the final meeting.
- On the last day, a meeting was held with representatives of MoH, key stakeholders, UN organizations, and key development partner organizations. Summary of overall findings and recommendations were presented, and priority actions at MoH level initially discussed.

After a period of implementation of the recommendations (one to two years), a second assessment is planned/recommended, using the same tool and methods and multidisciplinary team of assessors in order to identify achievements, obstacles and way forward to quality improvement.

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Indicators

Selected indicators for standalone antepartum and postpartum outpatients health facili-	
ties	
Number of residents (served population):	
- Women	
- Newborns	
Number of served plots	
Average number of women on one plot	
Distance to the farthest populated locality	
Number of medical providers in the facility	
- Family doctors	
- Midwives	
- Nurses	
- Ob/Gyn	
- Paediatricians	
Number of pregnant women per year	
Percent of women with antenatal care beginning before 12 weeks	
Percent of pregnant women with 1-3 antenatal visits	
Percent of pregnant women with number of antenatal visits 4 and more>	
Percent patients with induced abortion before 12 weeks	
Percent patients with induced abortion after 12 weeks - before22 weeks	
Percent patients with spontaneous abortion after 12 – before 22 weeks	
Percent of pregnant women with severe anemia Hb $<70 \text{ g/l} (7\text{g\%})$	
Percent of pregnant women with anemia Hb from 70 to 110 g/l (11g%)	
Percent of pregnant women received folic acid supplementation in the first trimester of preg-	
nancy	
Percent of pregnant women received prophylactic iron supplementation	
Percent of pregnant women with USG screening at 18-22 weeks	
Percent of pregnant women tested for syphilis	
Percent of pregnant women tested positive for syphilis	
Percent of pregnant women screened for HIV	
HIV prevalence (%) among pregnant women (or among women in fertile age, if only this	
information is available)	
Percent of women who received tetanus immunization	
Percent of pregnant and postpartum women transferred to higher level of care according to	
agreed indications	
Percent of postpartum women accessing modern contraception methods	
Percent of neonates receiving immunization according to national immunization guidelines	
Percent of infants exclusively breastfed for 6 months	
Additional indicators for antepartum and postpartum outpatient health facilities at-	
tached to maternity hospital or department	
Number of deliveries per year	
Percent of cesarean sections per year	
Percent of deliveries outside health care facilities	
Percent of deliveries without antenatal care (0 antenatal visits)	
Still birth rate (number of stillbirths per 1000 neonates, including live births and stillbirths)	
Perinatal mortality rate (number of stillbirths plus early neonatal	
deaths per 1000 total births)	
Maternal Mortality Ratio (number of maternal deaths per 100 000 live births)	
Percent of births < 37 completed weeks	
Percent of preterm births $22 - 28$ weeks	
Percent of births < at the 28-34 weeks of pregnancy	
	<u>,</u>

1. Facility support systems

1.1 Availability of statistical data and record keeping

perinatal indicators (i.e. proportion of women with ANC visit before 12 weeks, proportion of pregnant women with at least 4 ANC visits, MMR, PNM, SBR) Existence and quality of a computer based information system on most important child indicators (<i>i.e. proportion of neonates</i> receiving immunization according to national immunization guidelines; proportion of infants exclusively breastfed for 6 months Periodical review and evaluation of statistics and indicators by the relevant professional teams (i.e. perinatal morbidity and mortality reviews, maternal morbidity and mortality re- views) All records are clear and legible Medical records are dated All diagnoses and recommendations are clear- ly written in the notes Results of evaluations and laboratory tests are clearly identifiable in the records All drugs and treatments are clearly identifiable in the records Sufficient information from hospital admis- sions is available to staff providing antepartum records are available to staff providing care during postpartum period Mothers have their own perinatal cards Mothers carry or have any access to their	Criteria	0	1	2	3	Comments
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	*					
	children's cards					

1.2 Drug availability and use for outpatient antepartum and postpartum care for women and infants

	Antepartum and	Any stakeouts in	Patient needs to
	postpartum outpa-	last 3 months	buy herself at local
	tient clinics	(check box if an- swer is YES)	pharmacy
Analgetics		Swel IS TES)	
Acetylsalicylic acid			
Paracetamol			
Medicines for anaphylaxis			
Emergency drug kit for anaphylaxis (con-			
tains chlorphenamine, dexamethasone and			
epinephrine)			
Antidotes			
Calcium gluconate			
Anticonvulsants			
Diazepam			
Magnesium sulphate			
Phenobarbital			
Antibacterials			
Amoxicillin			
Ampicillin			
Benzathine benzylpenicillin			
Benzylpenicillin			
Cloxacillin			
Ceftriaxone			
Azithromycin			
Erythromycin			
Gentamicin			
Nitrofurantoin			
Metronidazole			
Spectinomycin			
Sulphamethoxazole trimethoprim			
Co- trimoxazole			
Ciprofloxacin			
Clindamycin			
Antifungal medicines			
Clotrimazole (vaginal)			
Fluconazole			
Antiviral medicines			
Aciclovir			
Antiretroviral Drugs			
Highly active antiretroviral therapy			
(HAART)			
Anti Anaemic Drugs			
Ferrous salt			
Ferrous salt + Folic acid			
Folic acid			
Cardiovascular medicines			
Labetalol			
Hydralazine			
Methyldopa			
Nifedipine (can also be used as tocolytic)			

Disinfectants		
and antiseptics		
Chlorhexidine		
Ethanol		
Polyvidone iodine		
Chlorine base compound		
Oral rehydration		
Oral rehydration salts, if possible low osmo-		
larity (for glucose-electrolyte solution)		
Vaccines *		
Hepatitis B vaccine		
Tetanus vaccine		
BCG vaccine		
Rubella vaccine		
Influenza vaccine		
Uterotonics and tocolytics		
Oxytocin		
Misoprostol		
Ergometrine		
Mifepristone-misoprostol		
Nifedipine		
Steroids for fetal lung maturity in preterm		
birth		
Betamethasone		
Dexamethsone		
Solutions correcting water, electrolyte and		
acid-base disturbances		
Sodium chloride 0.9%		
Isotonic		
Sodium lactate, compound		
Solution		
Glucose 40-50%		
Sterile water for injection		
Vitamins and minerals		
Vitamin D		
Vitamin K		
Contraceptive drugs and methods		
Combined oral contraceptive pills		
Progestine only (mini-Pill)		
Medroxyprogesterone acetate (Depo-		
provera)		
Implantable hormonal contraception		
Condoms		
Diaphragm		
Intra-uterine device		

* The immunization schedules are different in countries. The list of vaccines should be discussed on the first meeting before assessment.

Are there any expired drugs in the pharmacy or in the drug cupboard	d? YesNo
If yes please list which drugs are expired.	

Is cold chain respected for vaccines?

Yes____No____

1.2.1 List of drugs commonly used in obstetrical practice without proven effectiveness

	Available in the health facility (+/-)
Vit C	
Cocarboxylaze	
Adenosuine triphosphate	
Glucose	
Novokaine (intravenous)	
Atropin	
Vit E	
Papaverin	
Magne B6	
Deproteinized extract of calf blood, similar to EPO (Actovegin, manufactured by	
nycimed Austria GmbH is used for improving of placental circulation in Eastern Eu-	
rope)	
Diethylstilbestrol dipropionate (similar stilbestrol produced under the trade name SYNOESTROL Sinestrol is used for breast engorgement in Eastern Europe)	
Metamizole sodium (DIPYRONE Dipiron, ANALGIN Analgin, NOVALGIN Novalgin,	
MELUBRIN Meluvrin) is produced and used for the treatment of pain in all countries	
of the WHO European Region)	
Drotaverinum (NOSPA-FORTE is manufactured by companies Chinoin (Hungary)	
and Sanofi Aventis (Slovakia) and used in eastern European countries as an antispas-	
modic and to treatment of pain)	

Other drugs with unproved efficacy / safety

1.	 	
2.	 	
3.	 	
4.	 	

	+/-
Warm and clean room	.,
Examination table or bed with clean linen	
Light source	
Heat source	
Hand washing	
Clean water supply	
Liquid soap	
Nail brush or stick	
Disposable towels Waste	
Receptacle for soiled linens	
Bucket for soiled pads and swabs	
Container for sharps disposal	
Sterilization	
Instrument sterilizer	
Miscellaneous	
Wall clock	
Timer	
Torch with extra batteries and bulb	
Log book	
Medical records	
Refrigerator	
Icepacks and vaccine carriers	
Supplies for ORT (cups, spoons, measuring jars)	
Equipment	
Device for measuring blood pressure and stethoscope	
Body thermometer (with possibility to measure low temperature)	
Wall thermometer	
Changing table	
Fetoscope or doptone	
Baby weighing scale	
Infant stadiometer	
Adult weighing scale	
Neonatal resuscitation kit	
Ambu bag, 500 ml, masks, air tube for infant, aspiration set (handle, mechanical	
or electrical with single use catheters, sizes 8, 10 Fr), IV catheters, syringes, Adrenaline 0.1%, NaCl 0/9%)	
Supplies	
Gloves:	
- Utility	
- Sterile or highly disinfected	
Urinary catheter	
Syringes and needles, different sizes and volume	
IV tubing	
Swabs	
Gastric tube	
Tests	
Express test for syphilis	
Express test for HIV	
Strips to detect proteinuria	
Container for catching urine	
Resuscitation kits for adult: Eclampsia and Haemorrhage	

1.3 Available functional equipment and supplies for antepartum and postpartum care

1.3.1 Laboratory support

	Available at	Available	Average time	Comments
	<u>the clinic</u>	<u>near by at</u>	<u>to get</u>	
		laboratory		
Haamaalahin		<u>facility</u>		
Haemoglobin Hematocrit				
Platelets				
Leukocytes count				
Blood grouping				
Rh status				
Rhesus antibodies				
Urine protein				
Urine microscopy				
Bacterioscopy (smear)				
Bacteriology (culture)				
Blood glucose				
Blood bilirubin				
Liver function tests				
Renal function tests				
Serologic test for syphilis				
Essential test during pregnar charge? Comments	ncy and newborr	n care are free from	n	Yes No
Tests are officially free but u Comments	inofficial payme	ents are requested	- ?	Yes No

1.4 Basic infrastructure

	YES	NO	Comments	
Facility is easily accessible to all categories of cus-				
tomers (elevator if it necessary, ramps for wheel-				
chair and pram)				
Is electricity continuously available?				
Is there a back-up power supply in the case of a				
power cut (i.e. diesel generator)				
Is running water continuously available?				
Is hot water continuously available?				
Is there a heat source on the facility?				
Is the obstetrical outpatient separate from the gen-				
eral outpatient department?				
Does the health facility have a separate, appropriate-				
ly furnished room for antepartum classes?				
Does the health facility have a separate, appropriate-				
ly furnished healthy baby room for counselling				
mothers?				
Are there sufficient and adequate toilets which are				
clean and easily accessible?				
Does the health staff has access to fully equipped				
hand washing facilities?				
ne main weaknesses				
lditional comments				

Overall assessment - Support System institutions	Improv	vement req	luired	Good
To be circled	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits, number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

2. Routine antepartum and postpartum care

2.1 Organization and provision of antepartum and postpartum care

Criteria	0	1	2	3
Place and providers of antepartum care	<u> </u>			
Midwife and General Practitioner-led models of care are				
offered to women with an uncomplicated pregnancy				
Obstetricians and other specialists are involved in the				
care when complications arise				
Continuity of care and referral				
Antepartum and postpartum care is provided by a small				
group of care-providers with whom the woman feels				
comfortable				
Continuity of care is offered throughout the antepartum				
and postpartum period				
A clear referral system is established so that pregnant				
and postpartum women/newborns who require addition-				
al care are managed and treated by the appropriate spe-				
cialist teams when problems are identified				
Local documentation of care			1	
Structured records are used for antepartum and postpar-				
tum care				
A standardized and national documentations are availa-				
ble and used				
Women receive individual perinatal card that includes				
the following information:				
- results of clinical examinations and laboratory tests				
- gravidogram				
- signs and symptoms of complications				
- signs and symptoms of complications				
- addresses and phone numbers of facilities offering				
emergency obstetrical care				

2.2 Principles of privacy and confidentiality for antepartum and postpartum care

Criteria	0	1	2	3	Comments
A private place for the examination and counseling is					
organized and available					
When discussing sensitive subjects, medical staff and					
patient (client) cannot be overheard					
Providers ask the woman's consent					
before discussing with her partner or family					
Confidential information about clients is not discussed					
with other providers, or outside the health facility					
Examination area is organized in a way that, during ex-					
amination, the woman is protected from the view of					
other people (curtain, screen, wall)					
All records are confidential and kept locked away					
Access to logbooks and registers is limited to responsi-					
ble providers only					

2.3 Principles of education and communication for antepartum and postpartum care

			-	_	-
Criteria	0	1	2	3	Comments
Basic principles of prescribing and recommen	ndiı	ıg			
treatments and preventive measures	-				
The purpose and results of each investigation					
are clearly and completely explained by the					
medical providers					
Medical providers explain to the woman what					
the treatment is and why it should be given					•
They explain to client that the treatment will					
not harm her or her baby, and that not taking it					
may be more dangerous					
Clear and helpful advice is given on how to					
take the drug regularly					-
Explain how the treatment is given to the ba- by. Watch her as she does the first treatment in					
the clinic					
Explain the possible side-effects to the client.			+		1
Explain the possible side-effects to the cheft. Explain that the most of them are not serious,					
and tell her how to manage them					
Advise client to return if she has any problems					
or concerns about taking the drugs					
Explore any barriers she or her family may					
have, or have heard from others, about using					
the treatment					
Discuss with the client the importance of buy-					
ing and taking the prescribed amount. Help her					
to think about how she will be able to pur-					
chase this					
Communicating with the woman and her com	npa	nior	1		
(family)					
Make the woman (and her companion) feel					
welcome					
Medical providers are friendly, respectful and					
non-judgmental at all times					
Use simple and clear language, taken into con-					
sideration educational level, cultural, religious					
and other needs of women					-
Invite an interpreter if it necessary					-
Encourage her and her family members to ask					
questions					-
Ask and provide information related to her needs					
Support her in understanding her options and					1
making decisions					
At any examination or before any procedure:					1
- seek her permission and					
- inform her of what you are doing					
Summarize the most important information,					
including the information on routine laborato-					
ry tests and treatments					

2.4 First antepartum visit ^{1,2}

Criteria	0	1	2	3	Comments
Most women have the first antepartum visit					
before 12 weeks of pregnancy					
Women are clearly informed and receive ap-					
propriate written information about the likely					
number, timing and content of antepartum ap-					
pointments associated with different options of					
care					
Women have an opportunity to discuss rec-					
ommended schedule with their midwife or					
doctor					
Information about antepartum classes is of-					
fered					
Purpose and effectiveness of screening inves-					
tigations offered during antepartum care is					
explained (asymptomatic bacteruria,18-24					
week ultrasound for dating and anomalies					
screening)	L				
A perinatal card is given (home based mater-					
nal records)					
Assessment of risk factors					
A clear list of risk factors (medical, social,					
psychological) is established and used and					
care providers take an appropriate medical,					
surgical, social and past obstetrical history					
Medical providers thoroughly collect obstetri-					
cal and other histories					
Medical providers offering antenatal care					
have sufficient skills to identify women that					
may need additional clinical, social or psycho-					
logical support during pregnancy					
Formal risk scoring is not used to plan content					
of antenatal care					
Pattern of care for the pregnancy for women					
that need additional care is planned					
Psychiatric screening, drug use and domestic	vio	len	ice	1,7	
Health care professionals are alerted to the					
symptoms or signs of domestic violence					
Women are given the opportunity to disclose					
domestic violence in an environment in which					
they feel secure					
Women were asked early in pregnancy if they					
have had any previous psychiatric illnesses					
Women were have had a past history of seri-					
ous psychiatric disorder are referred for a psy-					
chiatric assessment during the antenatal period					
Women were asked early in pregnancy about					
smoking					
Woman (or her partner) was asked about her					
partner smoking status					
Women were asked early in pregnancy about					<u> </u>
use of alcohol					
				1	
Women were asked early in pregnancy about					

		T	-	
women should not be routinely offered vita-				
min D (or other vitamin-mineral) supplemen-				
tation during pregnancy. ⁷	\vdash			
Oral vitamin D supplements of 10 micrograms				
per day are offered to healthy pregnant women				
at risk of vitamin D deficiency (women with				
dark skin, women who usually cover their				
skin, women who eat a vegan diet and women				
in age group 19-24 years). ⁷				
Deworming medications (albendazole,				
mebendazole) are offered once during preg-				
nancy in areas with high burden of helminths				
infections according to national guidelines to				
help prevent anemia in second or third tri-				
mester				
Daily low dose of Aspirin (75-125 mcg) is				
recommended to women with a past history of				
pre-eclampsia or eclampsia (and other high				
risk factors) for the prevention of such com-				
plications.				
Calcium supplementations (1 g daily) is rec-				
ommended to women who are calcium defi-				
cient with a past history of pre-eclampsia or				
eclampsia for prevention of pre-eclampsia or				
eclampsia				
Medical providers refer women with high risks				
of preeclampsia to Ob/Gyn for consultation.				
Following care can be done on primary ante-				
natal care with Ob/Gyn together.				
Iodine supplementation				
Tetanus toxoid (TT) immunization status is				
checked and vaccination is offered if indicated				
according to national guidelines ^{1,2}				

2.5 Routine follow up antepartum visits, considerations for select infectious and non-infectious conditions $^{\rm 1,2}$

Criteria	0	1	2	3	Comments
At least 4 antepartum visits are offered					
At all visits the providers:					
- check gestation age of pregnancy					
- ask where the women plan to deliver					
- ask about any vaginal bleeding, contrac-					
tions or leaking of fluid since last visit					
- ask if the baby is moving					
The providers review, discusses and record the					
results of all screening tests undertaken					
The providers reassesses the planned pattern					
of care for the pregnancy and identifies wom-					
en who need additional care					
Women have an opportunity to discuss issues					
and ask questions about offered information					
Women are informed about their next visit and					
the date of this visit is agreed					
All data are appropriately recorded in perinatal					
card					

Varbal information about anter attend	Τ			
Verbal information about antepartum classes is offered				
Each visit includes the following routine exar	 nir	 ati4	ope	
and tests:		all	0115	
		-	<u> </u>	1
- blood pressure	╞	-		
- measurement and plotting of symphysis-				
fundal height (after 24 weeks) on gravi- dorgam, assessment of it				
- auscultation of fetal heart rate	+			
- body weight in case of low BMI	┼──			
	+			
- urinalysis for protein in urine	<u> </u>	;ff.		4
Other investigations and counseling offered a intervals/periods during pregnancy	ıιa	me	eren	ll
Hemoglobin is determined at 28 -30 weeks 2	Τ			
Screening for gestational diabetes is offered	┼──			
according to national guidelines at 24-28				
weeks gestation (universal or risk based ap-				
proach)	1			
Screening for syphilis is offered two times	+	+	-	-
during pregnancy ²				
Screening for HIV is offered two times during	+			
pregnancy ^{2,3}	1			
Anti Rh-antibodies are determined in Rh-	\uparrow	\uparrow		
negative women twice (the first visit and 27-	1			
28-th weeks of pregnancy) ⁷	1			
Providers do not offer routinely investigation	s li	ste	d	•
below:				
Routine antepartum pelvic examination ⁷				
Repeated maternal weighting, except cases of	1		1	
low BMI	1			
Pelvimetry ³	1			
Vaginal smear in absence of signs and symp-				
toms of vaginal infections ³				
Screening for cytomegalovirus (CMV) ^{3,7}				
Screening for toxoplasmosis ^{3,7}	L	L	L	
Screening for herpes simplex virus ¹⁵	1			
Screening for Chlamydia. trachomatis ⁷	1	1		
Screening for Hepatitis C ⁷	1			
Screening for Streptococcus B ^{3,7}	1			
Screening for asymptomatic Bacterial vagi-				
nosis ^{3.7}				
Screening for preterm birth by cervical length				
(either by Ultrasound screening or vaginal ex-	1			
amination) or using fetal fibronectin ⁷				
Formal fetal movement count ⁷				
Antenatal non-stress test for monitoring of				
fetal wellbeing ⁷				
Ultrasound scanning after 24 weeks for moni-				
toring of growth or fetal wellbeing ^{3,7}	\bot			
Umbilical artery Doppler Ultrasound scanning				
for monitoring of fetal wellbeing ⁷	\vdash			
Uterine artery Doppler Ultrasound scanning to	1			
predict preeclampsia ³	⊢	<u> </u>		
Biochemical tests ¹⁰	⊢	_	<u> </u>	
Blood coagulation tests				

Late third trimester		
Fetal position is determined after 36 weeks of		
pregnancy ⁷		
External cephalic version is offered in breech		
presentation at 36-37 weeks of pregnancy ⁷		
Women are referred to maternity facilities		
with 24 hour availability of emergency cesare-		
an section in case of breech, transverse lie and		
previous uterine scar ^{1,2}		
The option of vaginal birth after cesarean sec-		
tion is discussed. Advantages and risks are		
correctly presented ¹¹		
Women are referred to maternity facilities at		
41 weeks for postdates care		

2.6 Checking and managing particular non-infectious conditions¹

Criteria	0	1	2	3	Comments
Screening and management for pre-eclampsia	a		1	_	
Blood pressure is measured at each visit, in					
sitting position and using correct methodology					
If diastolic blood pressure (DBP) is ≥90 mm					
Hg or SBP $\geq > 140$ mm Hg, measurement is					
repeated after 1 hour rest					
If DBP is $\geq > 90$ mm Hg or SBP $\geq > 140$ mm					
Hg on 2 readings, proteinuria is checked					
Women with preeclampsia (DBP \ge 90-110					
mm Hg, SBP $\geq > 140$ mm Hg and proteinuria)					
are referred to higher level care facilities for					
specialist care					
Women with severe preeclampsia (DBP ≥>					
110 mm Hg or SBP $\geq >$ 160 mm Hg and pro-					
teinuria or any hypertension with any clinical					
signs (severe headache, blurred vision or epi-					
gastric pain) are referred urgently to higher					
level facilities after administration of magne-					
sium sulfate and appropriate antihypertensive					
according to guidelines					
Medical providers inform women about symp-					
toms and signs of sever preeclampsia: head-					
ache, problems with vision (blurring or flash- ing before the eyes) bad pain just below the					
ribs, vomiting, and sudden swelling of face,					
hands or feet					
Providers do not offer routinely investigation	e lie	stad			
below:	5 110	sicu			
Bed rest and hospitalization are not					
currently recommended for women with					
isolated gestational hypertension					
Diuretics are not administered to					
prevent/treat pre-eclampsia					
Restriction of salt/fluid intake is not			Ī	ļĮ	
recommended					
Increasing/decreasing of protein and/or					
energy intake is not recommended]	

X 0.1. 1 1 1	1	1			
Iron, folate, magnesium, zinc or fish oil					
supplementation is not prescribed for					
prevention of pre-eclampsia					
Checking and treatment for anemia					
The provider enquires about signs of severe					
anemia (tiredness, breathlessness, chest pain,					
palpitations, feeling faint)					
Provider looks at symptoms of severe anemia					
(conjunctival and palmar pallor, number of					
breaths in 1 minute)					
If signs and symptoms of severe anemia, He-					
moglobin (Hb) is measured according to local					
guidelines and clinical judgment					
In case of severe anemia (Hb<7 /dl and / or					
severe pallor, dyspnea, breathlessness at rest,					
chest pain, palpitations) the provider:					
- revises the birth plan as to deliver in a fa-	1				
cility with blood transfusion services	1				
- gives a double dose of iron (60 mg twice	1				
daily) for 3 months	1				
- counsels on compliance with treatment and	1				
explains why the iron is being given	1				
- follows up in 2 weeks to check clinical	1				
progress, test results and compliance with					
treatment					
- refers urgently to hospital in late gestation					
In women with moderate anemia (Hb 7-11					
g/dl) the provider:					
- gives a double dose of iron (60 mg twice					
daily) for 3 months					
- counsels on compliance with treatment and					
explains why the iron is being given reas-					
sesses at next antenatal visit. If anemia per-					
sists, refers to hospital					
Prevention of preterm delivery ^{3,7}					
Medical providers refer women with high risk					
of preterm delivery for consultation to higher					
level facilities					
Providers do not offer routinely investigation	s li	stee	ł		
below:					
Bed rest and hospitalization are not					
currently recommended for women at risk					
of PTD					
Sexual activity is not prohibited in women	1			-	+
at risk	1				
	┣──			<u> </u>	+
Prophylactic oral betamimetics /magnesium	1				
sulphate/calcium supplementation are not giv-	1				
en in women at risk	_	-		<u> </u>	
Routine antenatal pelvic examination is not	1				
perform to predict preterm delivery	<u> </u>				
Women with risk factors for preterm delivery	1				
are not admitted routinely during "critical pe-					
riods" of pregnancy					
Screening, prevention and management of R	hD	all	0-		
immunisation ⁷					
Testing for blood group and RhD status is of-					
		4			

		1
fered in early pregnancy to all women		
If a pregnant woman is RhD-negative, her		
partner should be tested to determine whether		
the administration of anti-D prophylaxis is		
necessary		
Screening for anti Rh antibodies is offered to		
all RhD-negative pregnant women.		
All women are screened for atypical red cell		
alloantibodies in early pregnancy and again at		
27-28 weeks regardless of their RhD status		
Routine antenatal anti-D prophylaxis is of-		
fered to all non-sensitized pregnant women		
who are RhD negative		
Pregnant women with clinically significant		
atypical red cell alloantibodies are referred to		
a specialist center for further investigation and		
advice on subsequent antenatal management		
Pregnancy after 41 weeks ^{2,7}	 	
Pregnant women are informed about the in-		
creased perinatal mortality after 41 weeks of		
pregnancy and advised to attend antenatal clin-		
ic if she is undelivered by 41 weeks of preg-		
nancy		
A written protocol for management of preg-		
nancies beyond 41 weeks of pregnancy is		
available		
Induction of labour is offered at pregnancy		
beyond 41 weeks to women with otherwise		
uncomplicated pregnancies		
Increased antenatal monitoring consisting of at		
least twice-weekly non-stress test and ultra-		
sound estimation of maximum amniotic pool		
depth is offered from 42 weeks to women		
who decline induction of labour		
A vaginal examination for membrane sweep-		
ing is offered prior to formal induction of la-		
bour in pregnancies beyond 41 weeks		
Fetal growth and wellbeing ^{7,8}	 	
Formal fetal movement count is not recom-		
mended during pregnancy		
Women are informed to seek care if there is a		
sudden increase or decrease of fetal move-		
ments		
Symphysis-fundal height is measured and		
plotted on gravidorgam correctly		
If there no positive trend on gravidorgam the		
fetal growth scan is recommended		
Biochemical and hormonal tests are not used		
to monitor fetal wellbeing during pregnancy		
Polyhydramnios	 	
If polyhydramnios is suspected - USG scan-		
ning is recommended		
Polyhydramnios is diagnosed based on agreed		
USG criteria (an AFI of more than 24 cm or a		
single pocket of fluid of at least 8 cm deep)		
If the diagnosis is confirmed woman is re-		

testing the portner	1		1	r	ا
testing the partner	<u> </u>			-	+
In women known to be HIV negative the pro-					
vider:					
- provides key information on HIV					
- counsels on benefits of involving and test-					
ing the partner					
- counsels on the importance of staying					
negative by correct and consistent use of					
condoms					
Identification and management of urinary tra	act	inf	ec-		
tions					
Screening test (culture) is performed in all					
women on the first visit. Criteria of diagnosis					
of asymptomatic bacteriuria is 10 ⁵ col/мл					
Infections of the low urinary tract are					
correctly treated (i.e. 5-7 days course of					
appropriate antibiotics; ampicillin/ cephalo-					
sporin/nitrofurantoin can					
be used; (no need for hospitalization)	1				
Women with pyelonephritis are correctly di-	1				1
agnosed, given antibiotics and hospitalization					
is offered for treatment					
Screening and adequate treatment for Syphil	ic	1			
Screening test is performed in all women	15		[[
e					
twice in pregnancy					
Women with syphilis are not hospitalized					
and isolated during pregnancy					
Women with syphilis are also screened and					
treated for the other sexually transmitted infec-					
tions (STI)					
The woman is encouraged to bring her sexual					
partner for treatment					
The woman is advised on correct and con-					
sistent use of condoms to prevent new infec-					
tion		14 14			
Correct diagnosis and treatment of gonorrho	ea	14, 10)		
If there is a high prevalence of gonorrhoea					
in the population screening is performed					
Culture of the cervical secretion is used to					
make the diagnosis					
Appropriate treatment is given to women					
and the partner is tested and treated					
Women are not admitted to the hospital /not	1				
isolated					
Eradication of the infection is checked with a					
follow-up swab and culture 6 weeks after	1				
treatment	1				
Management of other infections during pregr	ian	cy	14-17		
Screening for tuberculosis (TB) in pregnancy					
is performed among women from risk group	1				
of population	1				
Screening for Hepatitis B is performed in all	1				1
pregnant women when specific immuno-	1				
globulin and vaccine are available	1				
General recommendation are given to	\vdash			-	1
pregnant women for prevention of	1				
prognant women for prevention of	1	1	1	I	<u> </u>

Lysteriosis and toxoplasmosis			
No treatment is offered for carriers of cyto-			
megalovirus (CMV)			
Primary CMV infection is diagnosed correctly			
and confirmed with appropriate tests			
Appropriate counseling about potential risks			
for fetus is offered to women with primary			
CMV infection			
Primary toxoplasmosis infection as diagnosed			
correctly and confirmed with appropriate tests			
Appropriate counseling about potential risks			
for fetus is offered to women with primary			
toxoplasmosis infection			
Women with genital herpes are not isolated			
and hospitalized			
Termination of pregnancy is offered to			
women diagnosed with Rubella in the first			
16 weeks of pregnancy			
Vaccination for Rubella is offered to all			
seronegative women after childbirth,			
miscarriage and/or termination of pregnancy			
(TOP)			
Women with rubella are not			
hospitalized			
Correct diagnostic criteria are used to diagnose			
vulvovaginitis ¹⁷			
A 1-week course of a topical imidazole is of-			
fered to treat vaginal candidiasis infections in			
pregnant women			
Oral drugs are not offered for treatment for			
vaginal candidiasis in pregnancy			

Test and examinations that are routinely recommended

Blood pressure measurement and urinalysis for protein

Blood pressure measurement and urinalysis for protein should be carried out at each antenatal visit to screen for pre-eclampsia.⁷

Algoritm of measurement of blood pressure (BP see Annex, , Testing practical skills".

Anemia

Pregnant women should be offered screening for anaemia. Screening should take place early in pregnancy (at the first visit) and at 28 weeks when other blood screening tests are being performed. This allows enough time for treatment if anaemia is detected. [B]⁷

Blood group and RhD status

Women should be offered testing for blood group and RhD status in early pregnancy. $[B]^7$

Mesurement the symphysio-fundal height

Symphyis-fundal height should be measured and recorded at each antenatal appointment from 24 weeks gestation to detect small for gestational age fetuses.⁷

Fetal abnormalities

Ultrasound screening for fetal abnormalities should be routinely offered between 18 and 20 weeks.⁷ **Syphilis**

Screening for syphilis should be offered to all pregnant women at an early stage in antenatal care because treatment of syphilis is beneficial to the mother and fetus. [B] 7 HIV

Pregnant women should be offered screening for HIV infection early in antenatal care because appropriate antenatal interventions can reduce mother-to-child transmission of HIV infection. [A]⁷ Asymptomatic bacteriuria

Pregnant women should be offered routine screening for asymptomatic bacteriuria by midstream urine culture early in pregnancy. Identification and treatment of asymptomatic bacteriuria reduces the risk of preterm birth and deseases of pyelonefrirtis. $[A]^7$

Hepatitis B virus

Serological screening for hepatitis *B* virus should be offered to pregnant women so that effective postnatal intervention can be offered to infected women to decrease the risk of mother-to-child transmission. [A]⁷ **Rubella**

Rubella susceptibility screening should be offered early in antenatal care to identify women at risk of contracting rubella infection and to enable vaccination in the postnatal period for the protection of future pregnancies.⁷

There is high level evidence that routine, rather than selective, **ultrasound** in early pregnancy before 24 weeks enables better gestational age assessment, earlier detection of multiple pregnancies and improved detection of fetal abnormalities with resulting higher rate of termination of affected pregnancies. $-^7$

Test and examinations not recommended routinely

Pelvic examination

Routine antenatal pelvic examination does not accurately assess gestational age, nor does it accurately predict preterm birth or cephalopelvic disproportion. It is not recommended.⁷

Measuring maternal weight

Measuring maternal weight routinely during pregnancy is not effective for screening for small size of fetus or other complications. It should be abandoned as it may produce unnecessary anxiety with no added benefit.⁷

Asymptomatic bacterial vaginosis

Pregnant women should not be offered routine screening for bacterial vaginosis because the evidence suggests that the identification and treatment of asymptomatic bacterial vaginosis does not lower the risk for preterm birth and other adverse reproductive outcomes. [A]⁷

Chlamydia trachomatis

Chlamydia screening should not be offered as part of routine antenatal care, as there are no good evidence of its effectivenes.⁷

Cytomegalovirus

The available evidence does not support routine cytomegalovirus screening in pregnant women and it should not be offered. $[B]^7$

Toxoplasmosis

Routine antenatal serological screening for toxoplasmosis should not be offered because the harms of screening may outweigh the potential benefits.⁷

Hepatitis C virus

Pregnant women should not be offered routine screening for hepatitis C virus because there is insufficient evidence on its effectiveness and cost effectiveness. $[C]^7$

Streptococcus Group B

Pregnant women should not be offered routine antenatal screening for group B streptococcus (GBS) because evidence of its clinical effectiveness and cost effectiveness remains uncertain. [C]⁷ *Routine ultrasound after 24 weeks of pregnancy.*

Routine ultrasound after 24 weeks in low-risk pregnancy does not improve perinatal outcome and should not be recommended.⁷

Biophysical tests to diagnose fetal growth restriction

All biophysical tests, including amniotic fluid volume (AFV), Doppler, cardiotocography and biophysical scoring, are poor for the diagnosing a small or growth-restricted fetus.⁸

2.7 Antepartum counseling ¹

Criteria	0	1	2	3	Comments
		-	-	5	
Counseling on the importance of exclusive					
breastfeeding is provided during pregnancy					-
Family planning counseling is given during the third trimester of pregnancy					
Lifestyle considerations ^{1,7}					-
	1			1	-
<i>Working during pregnancy</i> Pregnant women are informed about their ma-					-
ternity rights and benefits					
A woman's occupation during pregnancy is					-
ascertained to identify those at increased risk					
through occupational exposure					
Women receive information about possible					
occupational hazards during pregnancy					
Nutrition					
Women are advised to eat greater amount and					
variety of healthy foods, such as meat, fish,					
oils, nuts, seeds, cereals, beans, vegetables,					
cheese, milk					
The provider gives examples of types of food	-				1
and how much to eat					
The provider spends more time on nutrition					
counseling with very thin women, adolescents					
and obese women					
Taboos about foods that are nutritionally im-					
portant for good health are determined and					
women are advised against these taboos					
Family members are encouraged to help en-					
sure the woman eats enough and avoids hard					
physical work					
Women are informed on food born infection					
and measures of protection					
Women are informed about the specific risks					
of smoking (as well as secondhand exposure)					
during pregnancy (such as the risk of having a					
low birth weight baby, placental abruption and					
preterm birth)					
Women (and her partner) are encouraged to					
quit smoking during pregnancy and benefits of					
quitting for baby, her and him, at any stage are					
emphasized					
Women are correctly informed about risks of					
alcohol consumption:					
- that pregnant women should not drink during					
pregnancy as the amount of alcohol that is safe					
in pregnancy is unknown that hings drinking (defined as more than 5					
- that binge drinking (defined as more than 5					
standard drinks on a single occasion) may be					
particularly harmful during pregnancy					
Women are informed that medicines should be					
used as little as possible during pregnancy and should be limited to circumstances where the					
benefit outweighs the risk					
benefit butweigns the fisk	I			1	

			1	
Women are informed that long-haul travel (air,				
bus, car) is associated with an increased risk of				
venous thrombosis and that frequent ambula-				
tion and venous compression stockings should				
be encouraged as a preventive measure				
Women are informed about the correct use of				
seatbelts (three-point seatbelts 'above and be-				
low the bump, not over it').				
Women are informed that, if they are planning				
to travel abroad, they should discuss consider-				
ations such as flying, vaccinations and travel				
insurance with their midwife or doctor				
Pregnant women are informed that beginning				
or continuing a moderate course of exercise				
during pregnancy is not associated with ad-				
verse outcomes				
Pregnant woman are informed that sexual in-				
tercourse in pregnancy is not known to be as-				
sociated with any adverse outcomes				
Pregnant women are informed on safe sex and				
correct and consistent use of condoms				
Minor symptoms ⁷		 		
Nausea and vomiting in early pregnancy				
Women are informed that most cases of nau-				
sea and vomiting in pregnancy will resolve				
spontaneously within 16 to 20 weeks of gesta-				
tion and that nausea and vomiting are not usu-				
ally associated with a poor pregnancy outcome				
If a woman requests or would like to consider				
treatment, effective interventions to reduce				
symptoms are offered				
Heartburn				
Women who present with symptoms of heart-				
burn in pregnancy receive correct information				
regarding lifestyle and diet modification				
Antacids are offered to women whose heart-				
burn remains troublesome despite lifestyle and				
diet modification				
Constipation				
Women who present with constipation in				
pregnancy are provided information regarding				
diet modification, such as bran or wheat fibre				
supplementation				
Haemorrhoids and Varicose veins				
In the absence of evidence of the effectiveness				
of treatments for haemorrhoids in pregnancy,				
women are informed about diet modification				
If clinical symptoms remain troublesome,				
standard haemorrhoid creams are considered				
Women are informed that varicose veins are a				
common symptom of pregnancy that will not	1			
common symptom of pregnancy that will not cause harm and that compression stockings				
cause harm and that compression stockings				
cause harm and that compression stockings can improve the symptoms but will not pre-				

2.7.1. Antepartum classes and supporting the women with special needs¹

Criteria	0	1	2	3	Comments
Antepartum classes					
Women are informed about the advantages					
and possibility of attending antepartum classes					
The information and schedule of antepartum					
classes is placed in a visible place at the facili-					
ty					
There is a specially appointed staff in the facil-					
ity to conduct antepartum classes					
These staff have good counseling and commu-					
nication skills and knowledge on topics for					
patient education during pregnancy					
A special place / room exists in the facility for					
antepartum classes					
This place / room is clean, warm, sufficiently					
large and furnished / equipped for antenatal					
classes					

	1		-	1	1
Informational materials on different aspects of					
prenatal education are available in the facility					_
Topics for patient education are rationally dis-					
tributed during pregnancy and cover following					
topics:					
In early pregnancy:					
- Normal physiologic processes of gestation					
- Nutrition and diet, including folic acid and					
iron supplementation					
- Food hygiene, including avoidance of food					
born infections					
- How the baby develops during pregnancy					
- Exercise, including pelvic floor exercises					
- Lifestyle advice including smoking cessa-					
tion; recreational drug use and alcohol con-					
sumption					
In the late second-early third trimester:					
- Place of birth					
- Labour and delivery					
- Partnership					
- Relaxation techniques					
- Care pathway					
- Breastfeeding					
In late pregnancy:					
- Preparation for labour and birth					
- Recognition of active labour stage					
- Care of baby					
- Breastfeeding technique					
- Postnatal self-care					
- Awareness of baby blues and postnatal de-					
pression					
- Postpartum contraception					
Husbands / partners are encouraged to partici-					1
pate during antepartum classes					
Patient education efforts are documented in					
the office record					
Women with special needs					
There are clear recommendations and path-					
ways of referral for women with special needs					
to another level of care or support					
groups/organizations					
When giving support to the woman with spe-	\square	1			1
cial needs, the provider:					
- creates a comfortable environment and uses					
a gentle and reassuring tone of voice					
- guarantees confidentiality and privacy					
 conveys respect and is not judgmental 					
 gives simple, direct answers in clear lan- 					
guage					
 provides information according to the 					
woman's situation which she can use to					
make decisions					
 is a good listener and patient 					
Interacting with an adolescent	1	<u> </u>	I	<u> </u>	1
Encourages the girl to ask questions and tell	T	1	<u> </u>		+
her that all topics can be discussed					
ner mat an topics can be discussed	<u> </u>	1			

	 -		
Understands adolescent difficulties in com-			
municating about topics related to sexuality			
(fears of parental discovery, adult disapproval,			
social stigma etc)			
Supports adolescent when discussing her sit-			
uation and ask if she has any particular con-			
cerns			
Helps the girl consider her options and to			
make decisions which best suit her needs:			
- advise that delivery in a hospital or birth			
center is highly recommended and why			
- reinforce why prevention of STI or			
HIV/AIDS is important for her and her ba-			
by			
- advise of importance of birth spacing and			
family planning options			
The woman living with violence			
encourages the woman to tell what is happen-			
ing and ask direct questions to help her to tell			
the story			
listens to her in a sympathetic manner, without			
blame and accusation			
helps to assess her present situation: if she			
thinks she or her children are in danger, ex-			
plores together the options to ensure safety			
helps to identify local sources of support			
(within family, friends, local community,			
NGOs, shelters or social services)			
offers an opportunity for another appointment			
Any forms of abuse identified or concerns			
about violence are appropriately documented			
Staff is trained to deal with and respond ap-			
propriately to needs of women living with vio-			
lence			
Health care staff is aware about violence			
against women and its prevalence in the com-			
munity			
Posters, leaflets and other information that			
condemn violence and tell about groups that			
can provide support are displayed in the facili-			
ty			
Contacts with local organizations working to			
address violence are established and functional			

2.8 Routine postpartum maternal care

Criteria	0	1	2	3	Comments
Postpartum examination of the mother					
The provider asks the woman:					
- when and where she delivered					
- type of delivery					
- how she is feeling/coping					
- if she has any pain, fever or bleeding after					
her delivery					
- about decisions on contraception					

	гт	1	
- if she is breastfeeding			
- if she has any problems with breasts or			
breastfeeding			
- if she has resumed sexual activity			
The provider checks the records for:			
- any complications during delivery			
- any received treatment			
- HIV status			
Blood pressure and temperature are measured			
The provider looks at the vulva and perineum			
for any tears, swelling and pus. If cesarean			
section was performed the incision site is also			
checked for any swelling, redness or pus.			
The provider looks at the pad for bleeding and			
lochia			
The provider assess for pallor			
The provider looks at the breasts for any signs			
of infection	\square		
The provider advises on postpartum care and			
hygiene, and counsels on nutrition and breast-			
feeding		_	
The provider advises on the importance of			
sufficient interval between birth and family			
planning			
The provider informs the woman and family			
on danger signs and when to seek care			
The provider gives any treatment or prophy-			
laxis due: (ex. tetanus immunization if she has			
not had full course)			
The provider asks about smoking her and her			
partner. Women and partner are encouraged to			
quit smoking. Provider explains benefits of			
quitting for children, their health.			
The provider advises women to visit health			
center within 4-6 weeks.			
Anaemia			
Hb is measured if there is a history of bleeding			
or clinical signs of anemia (conjunctival pal-			
lor, breathlessness or dyspnoea, chest pain,			
palpitations) If Hh is $\sqrt{7} g/dl$, a double does of iron (60 mg		-	-
If Hb is <7 g/dl a double dose of iron (60 mg twice doily) for 2 months is offered and follow.			
twice daily) for 3 months is offered and follow		1	
up in 2 weeks to check clinical progress and			
compliance with treatment is arranged	\vdash	 \vdash	-
If Hb is 7-11 g/dl a double dose (60 mg twice daily) of iron for 3 months is offered and fol-			
low up in 4 weeks to check clinical progress		1	
and compliance with treatment is arranged Lower urinary tract infection	\vdash	 \vdash	
Appropriate oral antibiotic is given	\vdash	\vdash	
Women are encouraged to drink more fluids	\vdash	\vdash	
Follow up visit in 2 days and if there is no im-			
provement, refer to hospital			
Uurinary incontinence	\vdash	\vdash	
Examination is performed to check for perine-	\vdash	\vdash	
al trauma		1	
ai u auma		<u> </u>	

Appropriate oral antibiotics for lower urinary			
tract infection are given			
If conditions persists more than 1 week, the			
woman is referred to the hospital			
Postpartum depression			
The provider asks the following question:			
- How have you been feeling recently?			
- Have you been in low spirits?			
- Have you been able to enjoy the things you			
usually enjoy?			
- Have you had your usual level of energy,			
or have you been feeling tired?			
- How has your sleep been?			
Have you been able to concentrate (for exam-			
ple on newspaper articles or your favorite ra-			
dio/TV programs)?			
If the diagnosis is Postpartum depression the			
provider provides emotional support and re-			
fers the woman urgently to the hospital			
If the diagnosis is postpartum blues the			
provider:			
- assures the woman that this is very com-			
mon			
- gives emotional encouragement and sup-			
port			
- counsels partner and family to provide as-			
sistance to the woman			

The main strengths

The main weaknesses

Additional comments

Overall assessment for the sections

Overall assessment - Routine antepartum and postpartum care	Improveme	nt require	ed	Good
Circle it	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

2.9 Postpartum newborn care

Criteria	0	1	2	3	Comments
Postpartum examination of the newborn	· 1		•		
Medical providers collects information about					
mother, age of child, gestational age of preg-					
nancy during the delivery, pregnancy history					
and complaints					
The provider assesses breathing (baby must be					
calm)					
The provider pays attention on the child's pos-					
ture and muscle tone					
Draws attention to the posture of the child de-					
termines whether the muscle tone is normal					
Looks at the movements: are they normal ac-					
tive and symmetrical?					
Looks at the presenting part — are there any					
swelling and bruises?					
Looks at abdomen for pallor and for evidence					
of jaundice					
Looks for malformations					
Measure body temperature					
Weighs the baby					
Measures the length of the baby					
Plots growth on growth chart					
If baby is preterm or weighs less than 2 kg the					
provider informs and advises the mother about					
kangaroo mother care					
If baby is preterm or weighs less than 2 kg the					
provider checks to see that Vitamin K has					
been given and provides it if not previously					
done					
The findings are recorded on the postpartum					
record					
Provider checks that vaccinations according national immunization schedule have been					
given and provides them if not previously					
done					
Provider advises mother about vaccination					
schedule and date of next visit					
Provider uses the counseling sheet to advise					
the mother when to seek care immediately, if					
the baby has any of these danger signs:					
- convulsions					
- difficulty breathing or hurried breathing					
- the baby moves more than usual or inhibit-					
ed					
- not feeding at all fever or feels cold					
- pus from eyes					
- skin pustules					
- yellow skin					
- a cord stump which is red or draining pus					
- bleeding					
- diarrhoea					
- in case if condition of the baby will become					
worse	1				

2.10 Assessment of breastfeeding and management of common breastfeeding complications

Criteria	0	1	2	3	Comments
	U	1	Z	3	Comments
Breastfeeding assessment				1	
Provider asks the mother:					
- How is the breastfeeding going?					
- How many times has your baby fed in 24					
hours?					
- Is there any difficulty?					
- Have you fed your baby any other foods or drinks?					
- How do your breasts feel?					
- Do you have any concerns?					
- Has your baby fed in the previous hour?					
Provider observes how baby is breastfeed.					
If the baby has not fed in the previous					
hour, mother is asked to put the baby					
on her breasts and breastfeeding is observed for about $5 - 10$ minutes					
Provider assesses					
- If the baby able to attach correctly?					
- If the baby well-positioned? If the baby					
suckling effectively If newborn is not well attached or is not suck-					
ling effectively - the provider teaches correct					
positioning and attachment					
If breastfeeding are less than 8 times per 24 hours – the provider advises to feed more					
frequently, day and night and reassures mother					
that she has enough milk					
If the baby receiving other foods or drinks –					
The provider advises the mother to stop feed-					
ing the baby other foods or drinks					
If the baby is nor able to take any food the					
mother and baby are referred urgently to the					
hospital					
Counselling on breastfeeding	1 1			1	
Counselling includes:					
- Reassure the mother that she can breastfeed					
her baby exclusively, on demand and she					
has enough milk					
- Explain that her milk is the best food for such for the baby and she should not give					
any other food, water or drinks.					
 Explain how the milk's appearance chang- 					
es: milk in the first days is thick and yel-					
low, and then it becomes thinner and whit-					
er. Both are good for the baby					
 Explain that breastfeeding will become 					
easier if the baby suckles and stimulates the					
breast her/himself and when the baby will					
grow up					
- Encourage skin-to-skin contact since it					
makes breastfeeding easier					
J	<u>ا</u> ــــــــــــــــــــــــــــــــــــ				1

Assess the mothers breasts if complaining of r	nippl	e or	
breast pain			
The provider asks how the breasts feel			
The provider looks at the nipple for fissure and			
looks at the breasts for:			
- swelling			
- shininess			
- redness			
Feels gently for painful part of the breast			
Measures temperature			
Observes a breastfeed if not yet done			
If nipple soreness or fissure			
- The provider encourages the mother to			
continue breastfeeding			
- Teaches correct positioning and attachment			
- Reassess after 2 feeds (or 1 day). If not bet-			
ter, the provider teaches the mother how to			
express breast milk from the affected breast			
and feed baby by cup, and continue breast-			
feeding on the healthy side			
If breast engorgement			
- The provider encourages the mother to			
continue breastfeeding			
- Teaches correct positioning and attachment			
- Advises to feed more frequently			
- Reassesses after 2 feeds (1 day). If not bet-			
ter, the provider teaches mother how to ex-			
press enough breast milk before the feed to relieve discomfort			
Mastitis			
- The provider encourages mother to contin-			
ue breastfeeding			
 Teaches correct positioning and attachment 			
 Gives antibiotics, for example cloxacillin 			
for 10 days			
- Reassesses in 2 days. If no improvement or			
worse, refers to hospital to rule out abscess			
- If severe pain, gives paracetamol			
in severe puin, gives puraceanion	I		

The main strengths

The main weaknesses

Additional comments

Overall assessment - Postpartum newborn care	Improv	vement re	quired	Good
To be circled	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

3. Rapid assessment, management and referral of common maternal antepartum and postpartum complications

3.1 Assessment and management of gestational hypertension, pre-eclampsia and eclampsia

Criteria	0	1	2	3	Comments
Blood pressure is taken in all pregnant		_	-	-	
women seen in the antepartum and postpartum					
clinic					
Standardized equipment, techniques and con-					-
ditions for blood-pressure measurement are					
used by all member staff					
If DBP is \geq 90 mm Hg, SBP \geq 140 mm Hg					-
measurement is repeated after 1 hour rest					
Dipstick urine (checking for protein) is					-
immediately performed in women with hyper-					
tension					
Women with preeclampsia (DBP90-110 mm					-
Hg, SBP 140-160 mm Hg and proteinuria) are					
referred to higher level care facilities for spe-					
cialist care					
When proteinuria develops women are					1
admitted to the hospital for further					
assessment/monitoring					
Pre-eclampsia and severe pre-eclampsia					
are correctly diagnosed (see criteria					
below*)					
Antihypertensive drugs are not given if the					-
SBP less than 160 mm Hg, DBP 90-110 mm					
Hg					
Management of severe pre-eclampsia and ecla	am	psia	4		-
If available an IV is inserted to ensure intrave-			-		
nous access in case of deterioration and need					
for IV medications					
Antihypertensive treatment is always					
started when SBP ≥ 160 and/or					
DBP ≥ 110 or when there are any other symp-					
toms such as headache, vomiting, epigastric					
pain at any level of hypertension					
Appropriate treatment at the appropriate]
dosage is given (oral alpha methyldopa;					
intravenous or oral labetalol, oral or intrave-					
nous nifedipine or intravenous hydralazine)					
Magnesium sulphate is given to prevent					
eclampsia in women with severe preeclampsia					
for transport, in women who are seizing					
Appropriate therapeutic and prophylactic					
schemes are used for magnesium sulphate					
administration					
Urine output, maternal reflexes, respiratory					
rate are evaluated					
Calcium gluconate 10% is readily available to					
reverse the effect of magnesium sulphate					
Women with severe preeclampsia and/or ec-					

	 r	
lampsia are immediately referred to hospital		
care with referral notes and accompanied by		
medical worker		
The first dose of steroids are given for fetal		
lung maturity if the fetus is between 24-34		
weeks gestational age		
There is a well-defined written protocol		
for management of eclampsia available and in		
the facility		
An emergency kit is ready and available at the		
facility for treatment of eclampsia and staff		
have received appropriate training to have the		
skill set to manage the emergency		
Women who are seizing are not restrained but		
placed in left lateral position with their head		
gently supported		
Nothing is placed in the mouth of a seizing		
woman		

*Criteria of Hypertension and Preeclampsia

Hypertension

diastolic blood pressure \ge 90 mmHg on two occasions or systolic blood pressure \ge 140 mmHg on two occasions

Severe hypertension

diastolic blood pressure $\geq 110~\text{mmHg}$ on two occasions or systolic blood pressure $\geq 160~\text{mmHg}$ on two occasions

Preeclampsia

Hypertension associated with proteinuria (> 0.3 g in 24 hours) \pm oedema. Virtually any organ system can be affected

Severe preeclampsia

Severe hypertension plus proteinuria, or

Any hypertension plus proteinuria, plus one of following symptoms:

- Severe headache
- Visual disturbance
- Papilloedema
- Epigastric pain and/or vomiting
- Signs of clonus
- Liver tenderness
- Platelet count falling to below 100 000
- Abnormal liver enzymes (ALT or AST rising to above 70 IU/L)
- HELLP syndrome

3.2 Assessment and management of antepartum hemorrhage ^{1,4}

Criteria	0	1	2	3	Comments
Vaginal examination is not performed					
The woman is asked if the bleeding is painful					
(abruption) or painless (previa)					
An intravenous (IV) line is inserted, using a					
14-16-(18) gauge needle or preferably catheter					
if available					
If available in case of heavy bleeding the crys-					
talloid fluids are administrated rapidly:					
- For beginning of infusion 1 litre in 15-					
20 minutes					

3.3 Assessment and management of threatened preterm labour, preterm labour and preterm premature rupture of membranes

Criteria	0	1	2	3	Comments
Management of threatened preterm labour a	nd 1	pre	ter	m	
labour		e			
Medical provider asks about previous preterm					
birth and risk factors for preterm birth (smok-					
ing, socioeconomic status, age, multiple gesta-					
tion, rupture of membranes)					
Asks about time and regularity of contractions					
Determines a gestational age					
If contractions' are strong, no rupture of mem-					
branes, vaginal examination is performed to					
determine dilation, effacement, station and					
presenting part.					
If rupture of membranes has occurred then					
examination is performed using a sterile spec-					
ulum					
Ampicillin is given for prevention of GBS					
sepsis when group B streptococcal					
(started with preterm labor)					
Woman is referred urgently to hospital					
The first dose of steroids for fetal lung maturi-					
ty are given					
Tocolytics (nifedipin) are given for transport					
as per guidelines					
Women is accompanied by health care staff,					
with appropriate referral notes					
Management of preterm premature rupture	of n	nen	n-		
branes					
Medical provider asks about time of rupture of					
membranes, colour of liquor, blood; and signs					
of chorioamnionitis (fever, abdominal pain,					
foul smelling vaginal odour or discharge)					
Gestational age is determined via history					
Sterile speculum is used to confirm rupture of					
membranes					
If rupture of membranes is confirmed vaginal					
examination is NOT performed					
Ampicillin (during the active phase of labour)					
and erythromycin (in case of absence of con-					
tractions) are given for prevention of GBS					
sepsis					
The first dose of steroids are given for fetal					
lung maturity				<u> </u>	
Woman is referred urgently to the hospital				<u> </u>	
Women is accompanied by health care staff,					

with appropriate referral notes			

3.4 Assessment and management of pyelonephritis

Criteria	0	1	2	3
Management of pyelonephritis				
Medical provider asks about symptoms of pye-				
lonephritis: fever, flank pain and burning on				
urination				
Urinalysis and culture are taken				
Blood pressure, temperature, and pulse are				
taken				
An intravenous (IV) line is inserted, using a				
16-18 gauge needle or preferably catheter if				
available and IV fluids are administered				
Appropriate IM/IV antibiotics are adminis-				
tered as per national guidelines (ampicillin or				
cefazolin)				
If available crystalloids are administered rap-				
idly if signs of shock:				
- for beginning 1 litre in 15-20 minutes				
Blood pressure, pulse and urine output are				
used as criteria of effectiveness of infusion				
Woman is referred urgently to hospital				
Women is accompanied by health care staff,				
with appropriate referral notes				

3.5 Management of delayed postpartum haemorrhage

Criteria	0	1	1 2	 3	Comments
Management of delayed postpartum haemori					
Medical provider asks about history of dis-					
ease: when and where delivered, type of de-					
livery, when bleeding started, amount of					
bleeding, fever, uterine tenderness, foul lochia					
Blood pressure, temperature, pulse are taken					
Bladder is emptied and catheterized					
Uterus is assessed to see if tender or boggy					
If uterus is tender or boggy uterotonics and					
IV/IM antibiotics are administered as per na-					
tional guidelines					
Vaginal examination is quickly performed to					
ensure bleeding is not from lacerations					
IF bleeding is due to lacerations- lacerations					
are repaired or tamponed with pressure until					
transported to facility for repair					
An intravenous (IV) line is inserted, using a					
14-16 (18) gauge needle or preferably catheter					
if available and IV fluids are administered					
If available crystalloids are administered rap-					
idly if signs of shock:					
- for beginning 1 litre in 15-20 minutes					
Blood pressure, pulse and urine output are					
used as criteria of effectiveness of infusion					
Woman is referred urgently to hospital					

Women is accompanied by health care staff,			
with appropriate referral notes			

3.6 Management of incomplete abortion

Criteria	0	1	2	3
Management of incomplete abortion				
Rapid history on incomplete abortion is taken:				
gestational age, when bleeding started, amount				
of bleeding, fever, foul odour or discharge				
Blood pressure, temperature, and pulse are				
measuring				
Speculum exam is performed to see if any tis-				
sue sitting in the cervix is present and can be				
removed				
Bladder is catheterized and emptied				
Uterotonics are given to help with expulsion				
of retained products according to guidelines				
An intravenous (IV) line is inserted, using a				
14-16 (18) gauge needle or preferably catheter				
if available and IV fluids are administered				
If available crystalloids are administered rap-				
idly if signs of shock:				
- for beginning 1 litre in 15-20 minutes				
Blood pressure, pulse and urine output are				
used as criteria of effectiveness of infusion				
Woman is referred urgently to hospital				
Women is accompanied by health care staff,				
with appropriate referral notes				

3.7 Management of intrauterine infection/endometritis

Criteria	0	1	2	3	Comments
Management of intrauterine infection	inagement of intrauterine infection				
Rapid history regarding uterine infection is					
taken: Temperature >38°C, feeling weak, ab-					
dominal tenderness, foul-smelling lochia,					
uterus not well contracted, history of heavy					
vaginal bleeding.					
Blood pressure, temperature, and pulse are					
taken					
Abdominal examination of the uterus is per-					
formed		-			
Bimanual/pelvic examination is performed					
IM/IV antibiotics are started					
An intravenous (IV) line is inserted, using a 14					
- 16 (18) gauge needle or preferably catheter					
if available					
If available crystalloids are administered rap-					
idly if signs of shock:					
- for beginning 1 litre in 15-20 minutes					
Blood pressure, pulse and urine output are					
used as criteria of effectiveness of infusion					
Woman is referred urgently to hospital					

Women is accompanied by health care staff, with appropriate referral notes			
The main strengths			
	 	 	 _
	 	 	 _
The main weaknesses			
			 _
Additional comments			
	 	 	 _

Overall assessment for the sections

Overall assessment - Rapid assessment, management and referral of com- mon maternal antepartum and postpartum complica- tions	Improv	vement re	quired	Good
Circle it	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

4 Rapid assessment, management and referral of newborn baby with complications

4.1 Assessment and management of very severe disease and local bacterial infection

Criteria	0	1	2	3	Comments
Check for very severe disease and local bacte	-				
tion	1 1 4 1	1111		-	
Medical care provider asks mother:					
- Do you have any difficulties in feeding the					
baby?					
- Has the baby had convulsions?					
Medical care provider					
- Counts the breaths per minute (repeats the					
count if 60 and more breaths per minute)					
- Looks for severe chest indrawing					
- ! The baby should be calm during examina-					
tion					
Measurement of axillary temperature					
Examination of the navel (umbilicus)					
- Is it red or draining pus?					
Examination of skin for pustules					
Looks for the baby's movements:					
- If baby is sleeping, asks the mother to wake					
him/her up					
- If the baby is not moving, gently stimulates					
him/her					
If any of the following signs are registered:					
- Not feeding well					
- Convulsions					
- Fast breathing (> 60 per minute)					
- Severe chest indrawing					
- Fever (> 37.5° C)					
 Low body temperature (< 35.5 °C) Movement only when stimulated or no 					
movement at all					
The first dose of appropriate intramuscular					
antibiotics is given					
The treatment to prevent low blood sugar is					
started					
- If the baby is able to suck the breast, the					
mother is asked to breastfeed					
- If the baby isn't able to suck the breast but					
is able to swallow, the baby is given ex-					
pressed breast milk or a breast milk substi-					
tute, or 30-50 ml sugar water					
- If the baby does not swallow, he/she is					
given 50 ml of milk or sugar water by na-					
sogastric tube					
Mother and newborn are urgently referred to					
hospital					
Mother and newborn are accompanied by					

health some staff with appropriate referred	Г	T		
health care staff, with appropriate referral				
notes	L			
Mother is advised how to keep the newborn				
warm on the way to the hospital				
Management for local bacterial infection				
(umbilicus red or draining pus or skin pus-				
tules)				
The appropriate oral antibiotic is given				
Mother is taught how to treat local infection at				
home				
Mother is advised on home care for the new-				
born				
Follows up in 2 days				
If pus and redness remains or is worse, mother				
and newborn are urgently referred to the hos-				
pital				
Mother and newborn are accompanied by				
health care staff, with appropriate referral				
notes				
If pus and redness decrease (situation im-				
proves) advise is given to continue antibiotics				
for 5 days and proceed with home care				

4.2 Assessment and management of diarrhoea

Criteria	0	1	2	3	Comments
Health care provider examines the baby for the					
signs of dehydration					
If any two of the following signs are fixed:					
- Sunken eyes					
- Skin pinch goes back very slowly (longer					
than 2 seconds)					
it is a severe dehydration					
Mother and newborn are referred urgently to					
the hospital					
Mother and newborn are accompanied by					
health care staff with appropriate referral notes					
Treatment of dehydration starts (plan C)					
- IV line is established					
- IV crystalloids (100 ml/kg)					
- If possible rehydration by tube					
- If the baby is able to drink ORS solution is					
given by mouth (5 ml/kg/hour)					
- Advise to continue breastfeeding as soon as					
the baby wants is given					
Any two of the following signs :					
- Restless, irritable					
- Sunken eyes					
- Skin pinch goes back slowly					
confirm some dehydration					
Treatment of dehydration begins (plan B)					
Baby is given ORS solution (200-400 ml) –					
preferably low osmolarity					
Health care provider shows the mother how to					
give ORS solution					

Health care provider advises to continue			
breastfeeding as soon as the baby wants			
If the baby is not breastfed, the advice to give			
clean water (100-200 ml/4 hours) is given			
If there are other dangerous signs or situation			
does not improve woman and newborn are			
urgently referred to the hospital			
Women and newborn are accompanied by			
health care staff, with appropriate referral			
notes			

4.3 Assessment and management of jaundice

Criteria	0	1	2	3	Comments
Health care provider asks the mother:					
- age of baby, the time of the problem started					
- Rhesus factor, blood group of parents					
 pregnancy and delivery history 					
- history of other babies with jaundice					
- term or preterm birth, birth weight					
Assesses a severity of jaundice					
If yellow palms and soles at any age health					
provider					
- Refers baby urgently to hospital					
- Encourages breastfeeding on the way					
- If there are feeding difficulties, recom-					
mends giving expressed breast milk by cup					
- If jaundice appears after 24 hours of age					
and palms and soles are not yellow: Advis-					
es mother to continue care at home					
- Advises to return immediately if palms and					
soles appear yellow					
- Follow-up in a day					
- If age > 3 weeks refer to hospital for as-					
sessment					

The main strengths

The main weaknesses

Additional comments

Overall assessment - Rapid assessment, management and referral of new- born baby with complications	Improv	vement re	equired	Good
Circle it	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

5. Universal Precautions and Cleanliness

Criteria	0	1	2	3	Comments
Appropriate hand washing					<u>I</u>
Places for hand washing are well organized					
and equipped:					
- liquid soap					
- disposable towels					
- containers for used towel collection					
- antiseptic					
Written protocols on hygiene for hands and					
antiseptic are available					
An information on hand washing technique is					
put above or near the wash bowls					
Staff is aware of the written protocols on hand					
washing and disinfection for various proce-					
dures and follows them					
There is continuous training of personnel					
on the rules and techniques of hand					
washing					
Hand washing is appropriately done:					
- hands are decontaminated before direct					
contact with patient and after any activity					
or contact that contaminates hands (expo-					
sure to blood or any body fluids, and after					
removing gloves, after changing oiled bed					
sheets or clothing)					
- rings, jewellery, nails are kept short soap					
is applied onto the hands under warm water stream					
- and hands rub against each other for no less					
than 15-30 sec according to instruction					
 hands are dried with paper towel and this is 					
used after to turn off the water tap					
- nail polish is removed if health care pro-					
vider carries out invasive procedures					
Hand washing with antiseptic soap or					
quick hygienic hand disinfection are					
performed in case of:					
- infected patients					
- exposure to biological fluids or invasive					
procedure (e.g. peripheral venous catheter,					
installation of urinary catheter)					
Use of gloves					
Sterile or highly disinfected gloves are used					
when performing vaginal examination, taking					
blood samples, contacts with sterile tissues or					
body fluids (blood, liquor)					
Gloves are used when handling dirty					
instruments, cleaning blood and other body					
fluid and when disposing of contaminated					
waste items					
A separate pair of gloves is used for each					
patient					
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Practices for safe sharps disposal				
Each needle and syringe is used only once		1		
After giving an injection needles are not re-		1		\square
capped, bended or broke				
Puncture resistant container is kept nearby		1	1	T
All used (disposable) needles, plastic syringes		1	1	T
and blades are dropped directly into this con-				
tainer, without recapping, and without passing				
to another person				
When the container is three-quarters full it is				
emptied or send for incineration				
Safe waste disposal practices		•		
Blood, or body fluid contaminated items are				
disposed of in leak-proof containers				
Contaminated solid waste is burned or buried				Ĩ
in special places				
Liquid waste is poured down a drain or flush-				
able toilet				
Sterilization and cleaning of contaminated eq	uip	ome	ent	
and gloves	-			
Any equipment which comes into contact with				
intact skin is thoroughly cleaned or disinfected				
Bleach or other approved disinfectant is used				
for cleaning bowls and buckets, and for blood				
or body fluid spills				
Gloves are cleaned and disinfected or steri-				
lized appropriately:				
- washed in soap and water				
- checked for damage (blow gloves full of				
air, twist the cuff closed, then hold under				
clean water and look for air leaks), discard-				
ed if damaged				
- soaked overnight in bleach solution with				
0.5% available chlorine (made by adding				
90 ml water to 10 ml bleach containing 5%				
available chlorine)				
- dried away from direct sunlight				
- dusted inside with talcum powder or starch				
- sterilized by autoclaving or highly disin-				
fected by steaming or boiling				1

The main strengths

The main weaknesses

Additional comments

Overall assessment for the sections

Overall assessment - Universal Precautions and Cleanliness	Improv	Good		
Circle it	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

6. Guidelines and auditing

Criteria	0	1	2	3	Comments
At least one recent obstetric textbook is					
readily available at the facility					
At least one recent midwifery textbook is					
readily available at the facility					
National guidelines on care during					
normal pregnancy are readily available at the					
facility					
Local protocols on care during normal					
pregnancy are readily available at the					
facility as pocket instructions, wall charts,					
or other documents					
National guidelines on management of					
emergency conditions complicating pregnancy					
are readily available in the facility					
Local protocols on management of					
emergency conditions of mothers are					
readily available at the facility as pocket					
instructions, wall charts, or job aids					
At least one recent neonatal guideline is avail-					
able at the facility					
National guidelines on care of newborns are					
readily available in the facility					
Local protocols on management of					
emergency conditions of newborns are					
readily available at the facility as pocket					
instructions, wall charts, or job aids					
National guideline for integrate management					
of childhood illness (IMCI) and pocket					
instruction of emergency care of newborns are					
readily available at the facility			-		
Local protocols at the facility are revised					
and updated regularly					
Medical staff are familiar with the content of					
the National and local guidelines					
Team work and auditing					
Periodical staff meetings are held to					
discuss organizational aspects					1
Periodical staff meetings are held to					
discuss maternal, perinatal and newborn mor-					
bidity, mortality and quality of care					1
Periodical staff meetings are held to					
discuss and revise protocols					

The main strengths

Additional comments

Overall assessment for the sections

Overall assessment - Guidelines and auditing	Improv	Good		
To be circled	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

7. Regionalization and referral to hospital care for women

Criteria	0	1	2	3		
Regionalization of care						
A regionalized system of antenatal care is developed and functional						
Clear referral pathways are established by national protocols/guidelines						
There is a written list of condi- tions/complications of pregnancy and post- partum period for each level of care						
Referral to higher level of care						
There are clear criteria for patients referral						
Referred patients receive appropriate pre- referral treatment when indicated						
Referred patients are provided with referral notes stating the condition, reason for referral and treatment given						
Referred patients are accompanied by trained health providers when indicated						
Transportation to the hospital						
Special transport car is available for "in uteri" transfer to the maternity						
Lack of transport vehicles is not a cause of delayed referral						

Cost for transport does not represent a barrier to referral			
Care-seeking by women			
Women adequately recognize signs and symptoms that require contact with health services			
Women are given adequate information and advice by primary care services about when and how to go to the hospital			

The main strengths

The main weaknesses

Additional comments

Overall assessment for the sections

Overall assessment - Regionalization and referral to hospital care for women	Improv	Good		
To be circled	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

8. Regionalization and referral to hospital care for newborns

Criteria	0	1	2	3	Commen
Regionalization of care					
The national protocols/guidelines clearly					
indicate the direction of the transfer of new- borns to specialists or to facilities of higher					
level					
There is a written list of condi-					
tions/complications when treatment is car- ried out at the different levels of health fa-					
cilities					
Defermed to high on level of some					
Referral to higher level of care			-		
Referred patients receive appropriate pre-					
referral treatment when indicated					

Parents of referred patients are provided with referral notes stating the condition, reason for referral and any treatment given referred patients are accompanied by trained				-
health providers when indicated Transportation to the hospital				
•	1	1	1	<u></u>
Special transport car is available for transfer "in uteri" or transfer of a newborn to the hospital				
Lack of transport to hospital is not a cause of delayed referral				
Cost for transport does not represent a barrier to referral				
Care-seeking by women				
Parents adequately recognize signs and symptoms that require contact with health services				
Parents are given adequate information and advice by primary care services about when and how to go to the hospital				

The main strengths

The main weaknesses

Additional comments

Overall assessment for the sections

Overall assessment - Regionalization and referral to hospital care for newborn	Improv	Good		
To be circled	0	1	2	3

Please indicate the quality of support of the process, noting one of the 4-digits: number 3 indicates good support, the numbers from 2 to 0 indicate the levels required improvements (2 = little need for improvement, 0 = is an urgent need to improve)

Summary evaluation score

This summary helps identifying the most critical areas as a basis for identifying priorities and work plan to guide the discussion with staff of facility at debriefing.

	Good	Τα	be impro	oved
Summary score	3	2	1	0
1. Support system institutions				
2 A. Normal prenatal and postnatal care				
2 B. Normal postnatal care for newborns, breast feeding				
3.Rapid assessment, management and transfer in the case of common prenatal and obstetric complications in mothers				
4. Rapid assessment, management and transfer in the case of com- mon complications in the newborn				
5. Universal precautions and Sanitary				
6. Guidelines and audit				
7. Regionalization and referral care to hospital for women				
8. Regionalization and referral care to hospital for newborn				
Summary score = total score				

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Annexes:

A1 Interviews with health professionals

All groups of health professionals (cleaners, nursing assistants, nurses/midwives, medical officers and doctors) should be considered for this interview. We would like to record the health professional's honest opinions. For this it is important that the health workers understand the aims of the survey and knows and trusts that the information will be stored and used while maintaining confidentiality. Please let them know that their names or initials will not be mentioned in any report or to supervisors in the hospital.

Please do not leave forms lying about or in a place that people who are not members of the team can read them.

Try to interview 2 staff each from the above mentioned categories of health professionals so that a minimum of 6-8 forms should be filled during the assessment visit. Health professionals are welcome to fill in the forms themselves, however, please do not let them take it away and return later due to the shortness of your stay.

Ask the questions in a face to face interview in a suitable place.

Try to record comments *as they are spoken* rather than trying to summarise the view expressed. Recording the real words used often helps to properly represent what the person is trying to say. When doing this please put the comments in quotation marks. For example:

"We have a real problem with the water supply, sometimes days go by without piped water, how can we wash our hands to prevent spreading infection"

If a health worker does not want to answer a particular question please note and proceed to the next question.

ANNEX A Interview of health professionals

Date	Name of the	Name of the interviewer					
Town		Rayon	Oblast				
Health facility name							
Survey number							

Position of health worker being in- terviewed:								
Current service and responsibilities								
How long have you worked at this health facility?How long have you been working in this position?								
• We are first interested in your views on the antenatal and postpartum care in your health facility								
1) Are there any things about the health facility building/department that you think are good or things that could be improved?								
2) For pregnant women, women after delivery and neo- nates			facto- ly		asional- inade- juate		ually inade- quate	
2 a) the space for patients is								
2 b) the toilets and washing facilities are								
2 c) the cleanliness of the facility is								
• We now want to ask you about the med work in	licines, vac	cines, suj	pplies an	d staf	f in the l	health	1 facility you	
3) The availability of (the following) are:	Plenty	Satis factory	Occasio ly inac quat	de-	Usual inadequ	2	N/A	
3 a) Medicines								
3 b) IV fluids								
3 c) laboratory tests (eg. Hb)								
3 d) Vaccines	<u> </u>	<u> </u>						
4) Do you have problems with any other equivorement, women after delivery and their babi		supplies t	hat make	it har	d to take	care	of pregnant	

The availability of staff:	Plenty	Satisfacto- ry	Occasional- ly inade- quate	Usually inade- quate					
5) What do you think about the number of staff available to care for pregnant women, mothers and their newborns?									
6) Do you think there is enough time available to care for a woman/the child the best way you know how to (the way you were trained)?									
7) If you have a problem with a pregnant wom- an, mother or the newborn is supervi- sion/support (e.g. from more senior clinical staff) available to you?									
8) Do you think the health facility lacks any important their babies?9) Do you think the quality of staff performance in If NOT, what are your suggestions?		•	fter pregnant w	omen, mothers					
10) If you have problems getting help when you think you need it, is it because: .there are not enough skilled people to call? .you are unable to contact the right people?									
.the response to your request is too slow? □ .another reason?									
• What do you think about the training of staff	and the c	organization	of vour work?						
Training of staff	Very good	OK	Occasional- ly inade- quate	Usually inade- quate					
11) How is your own knowledge about the health of women during pregnancy and after delivery, their illnesses, fetal development and problems of the neonates?									
11 a) if it is sometimes inadequate what areas do y you would like to improve your knowledge furthe		you need more	e training on or	are there areas					
12) Are there possibilities for further professional	training in	n your health i	facility? Please	explain.					

13) Is there a fixed rotation of staff within the health facility in regular intervals? Y/N

13 a) If yes, how often do you rotate?

13 b) What do you think about this?

14) Are there regular meetings of all health care providers (nurses/midwifes/doctors) who work in the health facility or/and the department that is involved in antenatal and postpartum care? Please explain who participates, frequency and nature of meetings.

15) Is there a regular feedback/audit session in terms of quality of care and feedback from the maternity and/or children hospitals? Please explain.

16) Do you have clear guidelines on the work you are doing? Please explain:

• What do you think about **the care** you and the health care facility provided to the pregnant women, women after delivery and the neonates?

17) How do you evaluate the information / expla- nations woman and families are given about preg- nancy, postpartum period and health, development	Very good	OK	Occasional- ly inade- quate	Usually inade- quate
and illnesses (if any) of the neonate?				
18) Do you have enough time to explain to the woman, parents and family their status and/or status of their child				
19) How do you think women evaluate the care provided in your health facility?				
20) How you evaluate the organization and quali- ty of the referral to the hospital when indicated?				
21) How you evaluate possibilities to provide emergency care to pregnant women, mothers and their babies?				
How you evaluate communication and feedback from				
22 a) the maternity and children hospitals,				
22 b) with ambulances				

23) Can you think of any ways to improve patients' understanding of their conditions/status or of their children's status, development and illness (if any)?								
24)Can you remember a woman/a baby you looked after recently when you were satisfied with how things turned out? Yes / No24 a) If yes, were you satisfied with how you helped the woman/the baby do well?								
24 b) What aspects of your own performance/ role were you satisfied with?								
 25) Can you think of a woman/a baby you provided care recently when you were disappointed with how things turned out? Yes / No 25 a) If yes, what aspects of care/progress did you think went wrong and what do you think were the reasons for this? 								
	Always	Often	Sometimes	Rarely	Never			
26) Overall are you satisfied with what this primary health facility is able to do to assist pregnant wom- en, women after de- livery and their ba- bies?								
			s about that could be char	nged to impro	ove the care of			
women and newborns in	the health care fa	cility you are	e working?					
28) Have you ever sugg results?	ested these impro-	vements to y	our supervisors/doctors/i	management	and with what			

29) Do you think the majority of your colleagues are generally satisfied with their work in the health facility? Yes / No29 a) What things do you think make people dissatisfied with their work?

29 b) What about the working conditions?

29 c) What could be improved to make staff of the health facility more satisfied with their work?

Summary score health workers interview: motivation and training of staff is:		To be improved		
(to be circled)	3	2	1	0

Please indicate the quality of support by marking one of the 4 numbers; 3 indicates good support, from 2 to 0 indicating levels of necessary improvement (2=small need for improvement, 0=urgent need for improvement)

ANNEX B Interview with pregnant women and mothers

The purpose of the interview is to evaluate the quality of the contact between the client and her caregivers and to see if she received appropriate counseling, as well as find out what can be done to improve her wellbeing and that of her baby. It is also to double-check whether standard case management meets that recommended during training workshops, and evaluate the impact of the training in terms of what has been fully implemented by health providers, partially implemented or not implemented at all.

Optimally, at least three women should be interviewed in each health facility:

two pregnant women (Interview may take place in the maternity hospital in case of hospitalization of women that have had their antenatal care in the out-patient primary health care institution that is participating in assessment)

one women having postpartum visit

Before you conduct the interview, explain to the woman that this health facility was selected by the Ministry of Health as a pilot hospital for improving the quality of maternal and child health care. Explain to her that the purpose of the interview is to find out what can be done to improve services for herself and her baby.

Ask the woman if she will answer a few questions concerning her own and her baby's condition as well as the care that they received from health providers. Ensure her that this interview is absolutely anonymous and confidential.

How to carry out the interview and complete the form:

Make sure you do not upset the woman. Make sure your attitude is positive in both words and action.

Do not conduct the interview during a clinical session to avoid influencing case management practices of other health providers?

Do not conduct the interview in the presence of other women whom you are going to interview and far as possible conduct the interview without other clinical staff around, in order to avoid influencing the woman's answers?

Hold the form upright, out of the view of the woman, as the different options provided in it might influence her answers.

Take whatever time necessary to talk to the mother and make sure she understands the questions. Ask the question as it is written in the interview form and repeat it in your own words only if the mother had not understood the original question.

Do not read the different answers that appear after each question. They are there only to facilitate your work. Instead, listen to the woman's answers, asking her to be as precise as possible, and tick $[\Box]$ when the answer provided matches one of the listed points. Sometimes it will be necessary to tick an answer that is close, but not exactly, the one listed. If the answer provided does not match any of the listed points, write a brief summary, as appropriate, in the space provided under "Other (Specify)"?

As you complete the form, make brief notes of your observations to be discussed with health workers during the feedback session. Also, underline or circle points in any of the issues you feel need commenting on. This will remind you to bring up problems or positive issues during the feedback session.

Make notes of the discussion during the interview and write summaries of important points under "Comments, discussions, problems". Use these notes at the feedback session.

Please write *clearly* in print characters so that the form is easy to read.

Date	Name of the interviewer			Country				
Town		Rayon		Oblast				
Facility name (hospital, specific service(s)								
Survey number								

If possible, the supervisor/evaluator conducting this interview should be a midwife or social worker or psychologist.

PREGNANT WOMAN/ MOTHER

How far do you live from this health care facility?
How old are you?
Did you recently migrate to the country?
How long ago?
Could you have your partner or any relative with you during visits?
Is this your first pregnancy? / second? / third?
If a pregnant woman is interviewed – Do you know approximately which week of pregnancy are you?

PREGNANCY

Which week of gestation you started your antenatal care?

If it was after the 12th week of gestation:

Has anybody explained you the optimal time to start the antenatal care? If YES, please, specify who and what was the reason you could not follow the recommendation to start antenatal care early

Could you specify which health professionals were involved in your antenat	al cara so far?	
Could you specify which health professionals were involved in your antenat		ſ
Did you have a possibility to choose the health professional who would provide your antenatal care?	Yes []	No []
If YES, please, specify how you made your choice?		
Did the doctor/nurse during your antenatal visits explain you on the rec- ommended diet during pregnancy?	Yes []	No []
Did the doctor/nurse during your antenatal visits explain you on the rec- ommended physical activity during pregnancy?	Yes []	No []
Did the doctor/nurse during your antenatal visits explain you on the rec- ommended sexual activity during pregnancy?	Yes []	No []
If yes, would you tell us about the diet you were recommended?		

		-
Did the doctor/nurse during your antenatal visits explain you on the rec- ommended tests and examinations during pregnancy?	Yes []	No []
Did the doctor/nurse during your antenatal visits explain you on the signs during pregnancy that require urgent consultation with health professionals?	Yes []	No []
Did you and your husband attend antenatal classes?	Yes []	No []
If NO, what was the reason? Please, specify		
Do you have your perinatal card with you?	Yes []	No []
If Yes, could you, please, show it to us?		
How many times you were examined vaginally during the antenatal care?		
How many times -your weight -your blood pressure -height of the uterus were examined? Could you tell us which laboratory tests were done during your antenatal car Did the staff ask your consent for examinations? If YES, please, specify Were any vitamins or medicine recommended to you during pregnancy?	e and how ofter	n?
If YES, please specify Were any free of charge vitamins or medicine provided to you by medical fa If YES, please specify	cility during pr	egnancy?
Were you visited at home by health care providers of the out-patient pri- mary health care facility that provides antenatal care?	Yes []	No []
If YES, who visited you home and how often? Please, tell us more about	it the purpose o	f the visit
Did you receive any information about delivery during antenatal visits?	Yes []	No []
Have you discussed your delivery plan?	Yes []	No []
Did you receive any information about breastfeeding?	Yes []	No []

Did you receive any information about family planning and contraception after delivery?	Yes []	No []
How many antenatal visits did you make during your pregnancy so far?		
How many ultrasound controls did you make during your pregnancy?		
Did you go to a private clinic?		
If YES, why?		
Could you tell us approx. how much do you have to pay per visit?		
Have you to pay in this health facility	Yes []	No []
- per visit	Yes []	No []
- laboratory tests	Yes []	No []
- ultrasound control		
How many consultations were carried out by a midwife?		
Have you to pay the midwife or other health care provider?	Yes []	No []
Are you satisfied with the quality of antenatal care?	Yes []	No []
Do you have any specific suggestions how antenatal care can be further impr	roved? Please, s	specify.

Were you given any documents for the out-patient primary health care unit on discharge from the hospital	Yes []	No []	
Were you well informed on the postpartum period when discharged from the maternity?	Yes []	No []	
If NO, what kind of additional information you would like to have? Plea	se, specify		
What was recommendation given by the maternity staff regarding your v health facility? Please, specify	visit to the prima	ry health care	
Have you received the birth certificate for your baby?	Yes []	No []	
If NO, could you explain why and what would be your suggestion to improve the birth register?			
Did any health professional visit you and your baby at home after dis-			

charge from the maternity?		
If YES, could you please specify who and when?		
If YES, what was the purpose of the visit?		
Do you any suggestions how to improve care of you and your baby after birth?		

BABY and BREASTFEEDING

Is your baby healthy?	Yes []	No []
If no, what is the problem with your baby?		
Preterm baby	Yes []	No []
Other (specify):		
What was the weight of your baby when born? grams		
Was your baby in same room with you for almost entire time you were in hospital?	Yes []	No []
How do you feed your baby?		
Breastfeeding	Yes []	No []
Breast-milk with spoon/cup	Yes []	No []
Breast-milk with bottle	Yes []	No []
Breast-milk by gastrogavage	Yes []	No []
Newborn formula	Yes []	No []
Donor's milk	Yes []	No []
Other (specify)		
Does your baby receive water/glucose?	Yes []	No []
Do you use artificial teats/pacifiers?	Yes []	No []
IF THE MOTHER IS BREASTFEEDING:		
How long after birth you started breastfeed your baby for the first time?	hour(s)	mi- nute(s)
How long was it possible to breastfeed him/her?	hour(s)	mi- nute(s)
Did health providers give you some support or recommendation for	Yes []	No []

breastfeeding?		
If yes, what did the health workers tell you on how often you should	feed your baby:	
Breastfeed on schedules	Yes []	No []
Breastfeed on demand of the baby	Yes []	No []
Other (specify):	·	
Were you advised to give to baby water/glucose?	Yes []	No []
Who gave you most of information about breastfeeding?	· · · ·	
Health professionals providing antenatal care		[]
Antenatal classes		[]
Obstetrician in the maternity		[]
Midwife in the maternity		[]
Neonatologist in the maternity		[]
Neonatology nurse in the maternity		[]
Ward-mate/friend		[]
Mother		[]
Mother-in-law		[]
Health care professional making a home visit after you were discharged f tal	from the hospi-	[]
Other (specify)		
Did you receive practical/physical assistance for breastfeeding?	Yes []	No []
How long do you plan to breastfeed?		
Less than 2 months		[]
Between 2 and 6 months		[]
More than 6 months		[]
More than 1 year		[]
Other (specify)		

Was the baby examined in your presence?	Yes []	No []
Was the baby taken away from you for pediatric examination?	Yes []	No []

Was the baby taken away from you for washing or other procedures?	Yes []	No []
If separated, can you describe in what situations?	Yes []	No []
Have you received enough help with baby care from staff?	Yes []	No []
Do you have a possibility to take a shower?	Yes []	No []
Did you eat fresh fruits/fresh vegetables yesterday?	Yes []	No []
How many cups of tea did you drink yesterday?		
Did you find the health care facility clean enough?	Yes []	No []
Did you have to pay for any services?	Yes []	No []
Please specify		
I would now like to know more about the services that you received today		
Excluding waiting time, how long did you spend with health staff today?	minutes	
Have you asked any questions regarding your health or health of your baby within last two days?	Yes []	No []
Has staff answered your questions in a way you understood?	Yes []	No []
Were you satisfied with answers?	Yes []	No []

SATISFACTION

Do you feel happy with maternity experience?	Yes []	No []
Are you planning to have more babies?	Yes []	No []
Do you feel you didn't find staff support you needed?	Yes []	No []
Do you remember continuously some moment you felt very frightened?	Yes []	No []
Did health care providers respect your cultural or religious concerns?	Yes []	No []
Is it difficult for you to take care of the baby?	Yes []	No []
Do you want to describe how do you feel?		

HOME CARE

Can you tell me how you take care of your baby at home?		
Keep cord stump clean and dry		[]
Always keep newborn warm, but not hot		[]
Breastfeeding on request		[]
Put the baby to sleep on his/her back		[]
Smoke in baby's room		[]
Sleep with the baby if you desire or fall asleep during breastfeed		
Sleep with the baby if you or someone in your bed take sleeping pills		
Other (specify):		
Do you tightly swaddle your baby ?	Yes []	No []
Can you tell me under what circumstances you would seek help for yo fy)	our baby? (ask wo	omen to speci-
Umbilicus red or drained pus		[*]
Fiver/low body temperature		[*]
Convulsions		[*]
Poor sucking		[*]
Vomiting or diarrhoea		[*]
Low reaction or irritability		[*]
Breathing difficulties (fast breathing)		[*]
Other (specify)		
Do you know where to seek help and support for your baby?	Yes []	No []

Can you tell me how you care of yourself at home?		
Daily wash with soap (also perineum)	Yes []	No []
Check up Caesarean wound	Yes []	No []
Check up episiotomy wound	Yes []	No []
Sleep at least 8 hours and some more during the day	Yes []	No []

Organize partner or other family members help with home work	Yes []	No []
Other (specify):		

CONTRACEPTION AND FAMILY PLANNING

Were you using contraceptives before this pregnancy?	Yes []	No []
Have you ever had an abortion?	Yes []	No []
If yes, how many?		num- ber
How many children do you have?		num- ber
Did health staff discuss contraception methods with you?	Yes []	No []
Did health staff clearly explain you how contraception methods work?	Yes []	No []
Did staff describe possible side effects?	Yes []	No []
Did staff explain what to do if you experience side effect?	Yes []	No []
Would you like to use contraception?	Yes []	No []
If yes, which contraception would you like to use?		
Intrauterine device (IUD)		[]
Oral contraceptives		[]
Condom		[]
Surgical sterilization of woman or man		[]
Contraceptive injections		[]
Vaginal spermicides (creams, suppositories, jelly)		[]
Other vaginal barrier method (diaphragm, sponge, cervical cap)		[]
Lactational amenorrhea method (LAM)		[]
Rhythms or temperature method		[]
Abortion		[]
Other (Specify):		

Observations

If mother is planning to breastfeed her baby, ask her if you can watch while she breastfeeds her baby. Try to stay until the end of the breastfeeding session and answer the following questions:

Are nipples washed before breastfeeding	Yes []	No []
Is baby tightly swaddled, including arms, shoulders and neck	Yes []	No []
Is mother's elbow supported during breastfeeding	Yes []	No []
If mother is seated, is her back supported during breastfeeding	Yes []	No []
Position of baby:		
Baby's nose opposite mother's nipple	Yes [*]	No []
Straight baby neck or bending slightly back	Yes [*]	No []
Body turned towards mother	Yes [*]	No []
Body close to mother	Yes [*]	No []
Newborn baby's whole body supported (not only head and neck)	Yes [*]	No []
Attachment of baby to breast:		
Chin touching breast	Yes [*]	No []
Mouth wide open	Yes [*]	No []
Lower lip turned outward	Yes [*]	No []
More aureole visible above than below mouth	Yes [*]	No []
Why did breastfeeding end?		
Because baby stopped sucking spontaneously		[]
Because mother decided it should		[]
Other reason for ending breastfeeding:		
Other comments on breastfeeding session:		
Questions from the methon		

Questions from the mother

Do you have any question to ask me? Any comments, suggestions and problems you would like to speak about and discuss with health providers or myself?

SUMMARY OF MOTHER INTERVIEW

The main strengths

The main weaknesses

Additional comments

ANNEX C testing clinical skills

Procedure	Steps
Taking blood samples for analysis	 Preparation of equipment before beginning the procedure is per formed, including: syringes, needles and test tubes for transport of blood specimens antiseptic solution, cotton swabs laboratory request forms tourniquet gloves
	 The procedure is explained to the woman and her arm is placed in a comfortable position Choosing the correct site for puncture of the vein is done The correct application of the tourniquet is performed. The site is cleaned with an antiseptic solution, and a sterile needle is used to perform the vein puncture Infection prevention precautions are taken; hand washing, glove use
	and precautions against needle stick injuries;
Intravenous infusion (IV)	The health care provider:Identify the need for IV when body fluid is lost as a result of shock, bleeding, infection, or dehydration2. Prepares the equipment before beginning the procedure, including:
	 sterile intravenous tubing large (No 14-16-18) needle or cannula appropriate fluid sticky tape, cut into strips drip stand or nail in wall tourniquet
	 splint with bandage antiseptic solution, cotton swabs gloves 3. Explains the procedure to the woman and places her arm in a com- fortable position
	4. Chooses the correct site for infusion
	5. Performs correct application of the tourniquet
	6. Cleans the site with an antiseptic solution, and uses a sterile needle.7. Performs infection prevention precautions; hand washing, glove use and precautions against needle stick injuries
	8. Fixes the needle in place; uses an arm board to keep the joint nearest the IV site from moving.9. Takes blood samples for grouping and cross-matching before infusing plasma expanders
	10. Records fluid intake on the patient's chart.
	11. Calculates an appropriate rate for the fluid to be infused at
	12. Recognizes personal limitations: if a midwife is unable to set up an W within 10 minutes she should call a more experienced colleague
Testing urine for protein	IV within 10 minutes, she should call a more experienced colleague The provider:
Dipstick method	1. Removes one dipstick from the bottle of dipsticks and replaces the
	 cap 2. Dips the coated end of the dipstick in the urine sample, completely immersing the reagent areas on the dipstick, and removes immediate-ly
Page 83 of 8 4	3. While removing the dipstick from the urine, runs the edge of the dip- stick against the edge of the urine container to remove excess urine

	1	
	4. Holds the strip in a horizontal position and compares the reagent are- as on the dipstick with the corresponding colour chart on the bottle label. Avoids placing the strip directly on the colour chart, as this	
	will result in the urine contaminating the chart	
	Colours range from yellow (negative) through yellow-	
	green to green and green-blue for positive	
Boiling Method	1. The following supplies and equipment are required:	
_	- clean test tubes	
	- heat source (e.g. Bunson burner)	
	- acetic acid	
	The provider then:	
	2. Places urine in a clean test tube and heats the upper half of the test tube only until it boils	
	3. Allows the test tube to stand until it is cool enough to touch. A thick precipitate at the bottom of the tube indicates the presence of protein	
	4. Adds 2-3 drops of 2-3% acetic acid after boiling the urine:	
	- if urine remains cloudy, protein is present in the urine	
	- if cloudy urine becomes clear, protein is not present	
	- if boiled urine remains cloudy or becomes cloudy when acetic acid,	
	protein is present	