WHO recommendations on maternal and newborn care for a positive postnatal experience
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Introduction

Postnatal care and the 2030 agenda for sustainable development
The postnatal period: a critical time for women and newborns
What is postnatal care?
Coverage and quality of postnatal care
Guideline scope: who & what?
Global agendas are expanding their focus to ensure that women and babies not only survive but also thrive and reach their full potential for health and well-being.

And recognize the postnatal period as a critical time for women and newborns, partners, parents, caregivers and families.

Postnatal care services are a fundamental component of the continuum of maternal, newborn and child care.
Postnatal care and the 2030 agenda for sustainable development

The burden of maternal and neonatal mortality and morbidity remains unacceptably high, and opportunities to increase maternal well-being and to support nurturing newborn care have not been fully utilized

- Up to 30% of maternal deaths occur postpartum
- 17 in every 1000 liveborn babies will die in the first month after birth

Mariam Mahamame carries her baby son in a sling while walking to a health centre in Gao, Mali, in 2014. © UNICEF/UNI162675/Phelps
The postnatal period: a critical time for women and newborns

When is it?

The postnatal period is defined here as the period beginning immediately after the birth of the baby and lasting up to six weeks (42 days) after birth.

- **Immediate** (first 24hrs)
- **Early** (day 2 to day 7)
- **Late** (day 8 to day 42)

Safa Manasra with her first child Asil in Shejaiya, Palestine, in 2014. © UNICEF/UNI176354/d’Aki
What is postnatal care?

Objectives

+ Maintaining and promoting health and wellbeing
+ Risk identification (assessments, screening)
+ Prevention of complications
+ Fostering support from the family & community
+ Addressing health-related and social needs

Contents

+ Care of the mother
+ Care of the newborn
+ Health systems initiatives and policies to support the family unit and promote quality care provision
Coverage and quality lag behind global targets

LENGTH OF STAY IN THE HEALTH FACILITY AFTER BIRTH VARIES WIDELY ACROSS COUNTRIES

Coverage and quality of postnatal care for women and newborns tend to be relatively poor, and opportunities to increase well-being and support nurturing newborn care are lost.

+ LINK: Campbell et al. 2016. Length of stay after childbirth in 92 countries and associated factors in 30 low- and middle-income countries: compilation of reported data and a cross-sectional analysis from nationally representative surveys

Fig 3. Map of countries with national-level data on length of stay after singleton vaginal deliveries. Data from OECD, DHS, and CDC-RHS.
Coverage and quality lag behind global targets

*PNC contacts have one of the lowest levels of coverage across the continuum of care for women and infants*

Median coverage for routine postnatal care within two days after birth still lags behind global targets for 2025:

- Women = 71%
- Newborns = 64%

*Figure indicates coverage for routine PNC within 2 days after birth (median)*

*+ LINK: Requejo et al., 2020. Assessing coverage of interventions for reproductive, maternal, newborn, child, and adolescent health and nutrition*
Guideline scope: who?

This guideline is relevant for the care of all women and adolescent girls in the postpartum period, and newborns in any health-care facility or community-based setting, unless otherwise indicated in a specific recommendation.

Based on the premise that all women and newborns deserve high-quality care, the guideline focuses on the core, essential postnatal care package.

The term “healthy women and newborns” is used to describe women or adolescent girls after childbirth and their newborns who have no apparent risk factors or illness, and who otherwise appear to be healthy.
Guideline scope: who?

Some women and their newborns can have additional health and social needs that are not covered in this guideline, including in the case of death of the woman or baby.

This guideline is therefore complementary to existing WHO guidance on the immediate care of the woman and newborn after birth, management of complications during pregnancy, childbirth and the postnatal period and care of preterm and low birthweight infant.

*Individuals with additional needs may also include adolescent girls and those from priority groups, including, among others, those living in rural settings, those facing financial hardship, those from ethnic, religious and racial minorities, migrant and displaced or war-affected individuals, unmarried women and girls, survivors of sexual- and gender-based violence, surrogates, sex workers, transgender or nonbinary individuals, those with disabilities or mental health conditions, and those living with HIV.*

**Individual interventions**
Assessments, screening, preventive measures, interventions for common physiological symptoms, nutritional interventions, breastfeeding, immunization, responsive caregiving, security and safety; self-care and family care practices

**Competent and motivated providers**
Skilled personnel, CHWs

**Delivery arrangements**
Timing of discharge, time and place of contacts, discharge readiness

**Health systems and health promotion**
Facility-based policies, health promotion, support, education, workforce management, digital health
Methods

+ Contributors to the guideline
+ Priority questions
+ Confidence in the evidence
+ Developing the recommendations
+ Integration of recommendations
Contributors to the guideline

**WHO Steering Group**

Staff members from the Departments of Maternal, Newborn, Child and Adolescent Health and Ageing (MCA), Mental Health and Substance Use (MSD), Nutrition and Food Safety (NFS), and Sexual and Reproductive Health and Research (SHR); who managed the guideline development process.

**Guideline Development Group**

A diverse group of 21 external experts and stakeholders from the six WHO regions with expertise in research, clinical practice, policy and programmes, guideline development methods relating to postnatal care practices and service delivery, and patient/consumer representatives.

Members were identified in a way that ensures geographic representation and gender balance and had no important conflicts of interest.
Contributors to the guideline

**External Review Group**

Six technical experts and stakeholders with an interest in the provision and experience of evidence-based postnatal care. The External Review Group peer-reviewed the final document to identify any errors of fact and comment on clarity of the language, contextual issues and implications for implementation.

**Technical Working Group**

Guideline methodologists and systematic review team leads, who worked closely with the WHO Steering group to synthesize the evidence and other considerations for development of the recommendations.

**External partners and observers**

Representatives of Bill and Melinda Gates Foundation, FIGO, ICM, IPA, UNICEF, UNFPA, and USAID.
A qualitative evidence synthesis was conducted to understand what women want, need and value during the postnatal period. It found:

The postnatal phase is a period of significant transition characterised by changes in self-identity, the redefinition of relationships, opportunities for personal growth, and alterations to sexual behaviour as women adjust to the new position both as parents and as individuals within their own cultural context, also marked by feelings of intense joy and happiness and love for their baby.

Women want to...

- Develop confidence and competence as a mother
- Adapt to their new self-identity
- Adjust to changes in intimate and family relationships (including with the baby)
- Navigate ordinary physical and emotional challenges
- Have consistent, culturally appropriate, understandable support and information
Priority questions

Focussing on what matters to women

Altogether, women want a positive postnatal experience:

*A positive postnatal experience is defined as one in which women, partners, parents, caregivers and families receive information and reassurance in a consistent manner from motivated health workers. Both the women’s and babies’ health, social and developmental needs are recognized, within a resourced and flexible health system that respects their cultural context.*

Therefore, WHO used a consultative process to identify priority questions related to the effectiveness of clinical and non-clinical practices aimed at helping women achieve their expectations of the postnatal period.

Source: WHO
Confidence in the evidence

The GRADE approach

- **Systematic reviews of quantitative evidence**
  - “What are the desirable and undesirable effects of the intervention?” and “What is the certainty of the evidence on effects?”

- **Systematic reviews of quantitative evidence**
  - “Is there important uncertainty or variability in how much women value the outcomes associated with the intervention?” and “Is the intervention acceptable and feasible to implement by women, health care providers, relevant stakeholders?”

- **Resource implications, cost-effectiveness, and equity evidence**
  - “What are the resources associated with the intervention?”, “Is the intervention/option cost-effective?”, What is the anticipated impact on health equity?”

**GRADE Evidence-to-Decision (EtD) frameworks**

These include explicit and systematic consideration of evidence on prioritized interventions in terms of **effects, values, resources, equity, acceptability and feasibility.**
Developing the recommendations

Adapting to the Covid-19 pandemic

Nine virtual GDG meetings were held each 1-2 months between September 2020 and June 2021.

Due to the need to accommodate various time zones, each GDG meeting lasted for a maximum of 3 hours.

Since virtual meetings were held over an extended period of time, the WHO Steering Group provided in batches the EtD frameworks, including evidence summaries, GRADE evidence profiles, and other documents related to each recommendation, to GDG members as soon as the documents were drafted in advance of the GDG meetings.

Photo by Chris Montgomery on Unsplash
Developing the recommendations

Evidence synthesis

The GDG meetings were held to reach consensus on each recommendation, including its direction and in some instances the specific context, based on EtD frameworks, GRADE evidence profiles and evidence summaries.
Developing the recommendations

Reaching consensus

Consensus was defined as the agreement by three quarters or more of the GDG, provided that those who disagreed did not feel strongly about their position.

In line with other recently published WHO guidelines using EtD frameworks, the GDG classified each recommendation into one of four categories.
Integration of recommendations

Existing WHO recommendations relevant to postnatal care

In order to harmonize and consolidate all recommendations that are relevant to the care of healthy women and healthy babies in the postnatal period into a single document, existing WHO recommendations that were within the scope of essential, routine postnatal care, and which were previously approved by the Guideline Review Committee, were identified, presented to the GDG and integrated into this guideline.

“Integrated from”

Recommendation taken from the associated guideline without modification or revalidation.

“Adapted and integrated from”

Recommendation adapted for the purposes of the postnatal care guideline. Here, relevant WHO departments that produced the specific guidance were consulted to confirm that adaptations were feasible given the evidence base.
Recommendations

+ A  Maternal care
+ B  Newborn care
+ C  Health systems and health promotion interventions
63 Recommendations included

31 new/updated recommendations

32 integrated recommendations

Recommendations are grouped according to

A. MATERNAL CARE

B. NEWBORN CARE

C. HEALTH SYSTEMS AND HEALTH PROMOTION INTERVENTIONS

Further subcategories of recommendations are presented for maternal and newborn care (e.g. “preventative measures”, “nutritional interventions”, “breastfeeding”).

The full guideline and the supporting GRADE evidence profiles are available at https://www.who.int/publications/i/item/9789240045989
Maternal health

Recommendations 1-24

+ A.1 Maternal assessment
+ A.2 Interventions for common physiological signs and symptoms
+ A.3 Preventive measures
+ A.4 Mental health interventions
+ A.5 Nutritional interventions and physical activity
+ A.6 Contraception
A.1 Maternal assessment

1. Physiological assessment of the woman

All postpartum women should have regular assessment of vaginal bleeding, uterine tonus, fundal height, temperature and heart rate (pulse) routinely during the first 24 hours, starting from the first hour after birth. Blood pressure should be measured shortly after birth. If normal, the second blood pressure measurement should be taken within 6 hours. Urine void should be documented within 6 hours.

At each subsequent postnatal contact beyond 24 hours after birth, enquiries should continue to be made about general well-being and assessments made regarding the following: micturition and urinary incontinence, bowel function, healing of any perineal wound, headache, fatigue, back pain, perineal pain and perineal hygiene, breast pain and uterine tenderness and lochia.
A.1 Maternal assessment

2a & 2b. HIV catch-up testing

In high HIV burden settings, catch-up postpartum HIV testing is needed for women of HIV-negative or unknown status who missed early antenatal contact testing or retesting in late pregnancy at a third trimester visit.

In low HIV burden settings, catch-up postpartum HIV testing can be considered for women of HIV negative or unknown status who missed early antenatal contact testing or retesting in late pregnancy at a third trimester visit as part of the effort to eliminate mother-to-child transmission of HIV. Countries could consider this only for women who are in serodiscordant relationships, where the partner is not virally suppressed on ART, or who had other known ongoing HIV risks in late pregnancy at a third trimester visit.
A.1 Maternal assessment

3a-3c. Screening for tuberculosis disease

Systematic screening for tuberculosis (TB) disease may be conducted among the general population, including of women in the postpartum period, in areas with an estimated TB disease prevalence of 0.5% or higher.

disease prevalence in the general population is 100/100,000 population or higher, systematic screening for TB disease may be conducted among women in the postpartum period.

Household contacts and other close contacts of individuals with TB disease, including women in the postpartum period and newborns, should be systematically screened for TB disease.

In settings where the TB
A.2 Common physiological signs and symptoms

4-6. Postpartum pain relief

**Acute pain from perineal trauma**

*Local cooling, such as with ice packs or cold pads, can be offered to women in the immediate postpartum period for the relief of acute pain from perineal trauma sustained during childbirth, based on a woman’s preferences and available options.*

**Postpartum perineal pain**

*Oral paracetamol is recommended as first-line choice when oral analgesia is required for the relief of postpartum perineal pain.*

**Uterine cramping/involution**

*Oral non-steroidal anti-inflammatory drugs (NSAIDs) can be used when analgesia is required for the relief of postpartum pain due to uterine cramping after childbirth, based on a woman’s preferences, the clinician’s experience with analgesics and availability.*
A.2 Common physiological signs and symptoms

4-6. Postpartum pain relief

Postpartum pain relief should be **individualized**, considering the presence of perineal trauma, intensity of the pain, multiple sources of postpartum pain (such as perineal, uterine, breast pain), and the use of other forms of pain relief.

All women should be asked about postpartum pain during their postpartum stay in health facilities and at each postnatal care contact.

Women should be advised on danger signs and symptoms, including any exacerbation of pain as manifestation of postpartum complications.
A.2 Common physiological signs and symptoms

7. Pelvic floor muscle training for pelvic floor strengthening

*For postpartum women, starting routine pelvic floor muscle training (PFMT) after childbirth for the prevention of postpartum urinary and faecal incontinence is not recommended.*

While PFMT started after childbirth is not recommended as a preventive measure, women with involuntary loss of small volumes of urine (urinary stress incontinence) after childbirth should be advised of the potential benefits of PFMT for treatment of urinary incontinence. For these women, in the absence of stronger evidence, the GDG agreed that unsupervised pelvic floor exercises performed at home may be beneficial and are unlikely to cause harmful effects.
Responsive breastfeeding
The mother responding to her baby’s cues, as well as her own desire to breastfeed. Responsive feeding is distinct from demand feeding, as it recognizes the reciprocal mother–baby relationship and benefits of breastfeeding beyond the alleviation of hunger.

A.2 Common physiological signs and symptoms

8 & 9. Interventions to treat postpartum breast engorgement

The use of pharmacological interventions such as subcutaneous oxytocin and proteolytic enzyme therapy for the treatment of breast engorgement in the postpartum period is not recommended.

For treatment of breast engorgement in the postpartum period, women should be counselled and supported to practice responsive breastfeeding, good positioning and attachment of the baby to the breast, expression of breastmilk, and the use of warm or cold compresses, based on a woman’s preferences.

Responsive breastfeeding
The mother responding to her baby’s cues, as well as her own desire to breastfeed. Responsive feeding is distinct from demand feeding, as it recognizes the reciprocal mother–baby relationship and benefits of breastfeeding beyond the alleviation of hunger.
A.2 Common physiological signs and symptoms

10 & 11. Interventions to prevent postpartum mastitis

For the prevention of mastitis in the postpartum period, women should be counselled and supported to practise responsive breastfeeding, good positioning and attachment of the baby to the breast, hand expression of breastmilk, and the use of warm or cold compresses, based on a woman’s preferences.

Routine oral or topical antibiotic prophylaxis for the prevention of mastitis in the postpartum period is not recommended.

Why not?

The GDG emphasized the risk of adverse effects of antibiotics for the woman and the newborn, and the negative public health impact of routine antibiotic administration on the global efforts to contain antimicrobial resistance.
A.3 Preventive measures

12 & 13. Prevention of postpartum constipation

Dietary advice and information on factors associated with constipation should be offered to women for the prevention of postpartum constipation.

Routine use of laxatives for the prevention of postpartum constipation is not recommended.

A stepwise approach

The GDG took into account a stepwise approach for the prevention and treatment of constipation in the adult population, where the use of laxatives is applied only if dietary modifications or fibre supplementation fail to relieve the constipation.
A.3 Preventive measures

14. Maternal peripartum infection

Routine antibiotic prophylaxis for women with uncomplicated vaginal birth is not recommended.
A.3 Preventive measures

15-16. Other maternal infections

Preventive chemotherapy (deworming) for soil-transmitted helminthiases and schistosomiasis

Preventive chemotherapy (deworming), using annual or biannual single-dose albendazole (400 mg) or mebendazole (500 mg), is recommended as a public health intervention for all non-pregnant adolescent girls and women of reproductive age, including postpartum and/or lactating women, living in areas where the baseline prevalence of any soil-transmitted helminth infection is 20% or more among adolescent girls and women of reproductive age, in order to reduce the worm burden of soil-transmitted helminths.

In endemic communities with Schistosoma spp. prevalence of 10% or higher, WHO recommends annual preventive chemotherapy with praziquantel in a single dose for ≥ 75% up to 100% of pregnant women after the first trimester, and non-pregnant adolescent girls and women of reproductive age, including postpartum and/or lactating women, to control schistosomiasis morbidity and move towards eliminating the disease as a public health problem.

In endemic communities with Schistosoma spp. prevalence of less than 10%, WHO suggests one of two approaches based on the programmes’ objectives and resources: (i) where there has been a programme of regular preventive chemotherapy, continuing preventive chemotherapy at the same or a reduced frequency towards interruption of transmission; and (ii) where there has not been a programme of regular preventive chemotherapy, a clinical approach of test-and-treat, instead of preventive chemotherapy targeting a population.
A.3 Preventive measures

17. Other maternal infections

Oral pre-exposure prophylaxis (PrEP)

Oral pre-exposure prophylaxis (PrEP) containing tenofovir disoproxil fumarate (TDF) should be started or continued as an additional prevention choice for postpartum and/or lactating women at substantial risk of HIV infection as part of combination HIV prevention approaches.
A.4 Mental health interventions

18. Screening for postpartum depression and anxiety

Screening for postpartum depression and anxiety using a validated instrument is recommended and should be accompanied by diagnostic and management services for women who screen positive.

Systems for referral, diagnosis and management of women should be established or strengthened to ensure adequate follow-up and management for those who screen positive.
A.4 Mental health interventions

19. Prevention of postpartum anxiety and depression

Psychosocial and/or psychological interventions during the antenatal and postnatal period are recommended to prevent postpartum depression and anxiety.

The provision of these interventions should be decided in a collaborative manner based on the woman’s preference and the care provider’s ability to deliver the intervention in terms of training, expertise and experience.
A.5 Nutritional interventions & physical activity

20 & 21. Iron, folate and vitamin A supplementation

Oral iron supplementation

Oral iron supplementation, either alone or in combination with folic acid supplementation, may be provided to postpartum women for 6–12 weeks following childbirth for reducing the risk of anaemia in settings where gestational anaemia is of public health concern.

Vitamin A supplementation

Vitamin A supplementation in postpartum women for the prevention of maternal and infant morbidity and mortality is not recommended.
A.5 Nutritional interventions & physical activity

22 & 23. Physical activity and sedentary behaviour

All postpartum women without contraindication should:

+ **undertake regular physical activity** throughout the postpartum period;

+ do at least 150 minutes of physical activity throughout the week for substantial health benefits; and

+ incorporate a variety of physical and muscle-strengthening activities; adding gentle stretching may also be beneficial.

Postpartum women should **limit the amount of time spent being sedentary**. Replacing sedentary time with physical activity of any intensity (including light intensity) provides health benefits.
A.6 Contraception

24. Postpartum contraception

Provision of comprehensive contraceptive information and services during postnatal care is recommended.

All postpartum women and couples should be offered evidence-based, comprehensive contraceptive information, education and counselling to ensure informed choice for their own use of modern contraception without discrimination.
Newborn health

Recommendations 25-43

+ B.1 Newborn assessment
+ B.2 Preventive measures
+ B.3 Nutritional interventions
+ B.4 Infant growth and development
+ B.5 Breastfeeding
B.1 Newborn assessment

25. Assessment of the newborn for danger signs

The following signs should be assessed during each postnatal care contact, and the newborn should be referred for further evaluation if any of the signs is present:

+ not feeding well
+ history of convulsions
+ fast breathing (breathing rate > 60 per minute)
+ severe chest in-drawing
+ no spontaneous movement
+ fever (temperature > 37.5 °C)
+ low body temperature (temperature < 35.5 °C)
+ any jaundice in first 24 hours after birth, or
+ yellow palms and soles at any age

The parents and family should be encouraged to seek health care early if they identify any of the above danger signs between postnatal care visits.
Universal newborn screening for abnormalities of the eye is recommended and should be accompanied by diagnostic and management services for children identified with an abnormality.

**When?**
Screening should be done prior to discharge after a health-facility birth, or at the first postnatal care contact in an outpatient setting after a home birth. Ideally, the screening should be done within the first 6 weeks after birth.

**Follow-up & management is critical**
Systems for screening, referral, diagnosis and management should be established or strengthened to ensure adequate follow-up and management for those who screen positive.
B.1 Newborn assessment

27. Universal screening for hearing impairment

Universal newborn hearing screening (UNHS) with otoacoustic emissions (OAE) or automated auditory brain stem response (AABR) is recommended for early identification of permanent bilateral hearing loss (PBHL). UNHS should be accompanied by diagnostic and management services for children identified with hearing loss.

Follow-up & management is critical

The principles for screening programmes must be implemented throughout UNHS introduction and scale-up. In settings where principles for screening are not met, implementation of universal screening may be considered unethical.
B.1 Newborn assessment

28 & 29. Universal screening for neonatal hyperbilirubinemia

Universal screening for neonatal hyperbilirubinemia by transcutaneous bilirubinometer (TcB) is recommended at health facility discharge.

There is insufficient evidence to recommend for or against universal screening by total serum bilirubin (TSB) at health facility discharge.
B.2 Preventive measures

30. Timing of first bath to prevent hypothermia and its sequelae

The first bath of a term, healthy newborn should be delayed for at least 24 hours after birth. The GDG suggested that all measures should be taken to minimize heat loss during bathing, which include:

- maintaining a neutral thermal environment,
- immediate drying,
- appropriate clothing of the newborn for the ambient temperature (1–2 layers of clothes more than adults, and use of hats/caps), and
- allowing the mother and baby to remain together at all times
B.2 Preventive measures

31. Use of emollients for the prevention of skin conditions

Routine application of **topical emollients** in term, healthy newborns for the prevention of skin conditions is **not recommended**.

**What are topical emollients?**
Creams, ointments, lotions, oils, gels, sprays and emulsions for skin care, applied routinely to whole or part of the body.

**Why not?**
The GDG agreed there was insufficient evidence on the benefits and harms, if any, of routine application of topical emollients in term, healthy newborns for either preventing skin conditions or atopic sensitization to allergens.
B.2 Preventive measures

32a & 32b. Application of chlorhexidine to the umbilical cord stump for the prevention of neonatal infection

Clean, dry umbilical cord care is recommended.

Daily application of 4% chlorhexidine (7.1% chlorhexidine digluconate aqueous solution or gel, delivering 4% chlorhexidine) to the umbilical cord stump in the first week after birth is recommended only in settings where harmful traditional substances (e.g. animal dung) are commonly used on the umbilical cord.

Siphiwe with her daughter Lundiwe in South Africa in 2014. © UNICEF/UNI182258/Schermbrucker
B.2 Preventive measures

33. Sleeping position for the prevention of sudden infant death syndrome

Putting the baby to sleep in the supine position during the first year is recommended to prevent sudden infant death syndrome (SIDS) and sudden unexpected death in infancy (SUDI).

Saundy Sagui, an indigenous Mayan woman, cradles her newborn son in Cobán, Guatemala in 2012. © UNICEF/UNI139090/Markisz
34. Immunization for the prevention of infections

Newborn immunization should be promoted as per the latest existing WHO recommendations for routine immunization.
B.3 Nutritional interventions

35a & 35b. Neonatal supplementation of vitamin A

Routine neonatal vitamin A supplementation is not recommended to reduce neonatal and infant mortality.

In settings with recent (within the last five years) and reliable data that indicate a high infant mortality rate (greater than 50 per 1000 live births) and a high prevalence of maternal vitamin A deficiency (> 10% of pregnant women with serum retinol concentrations < 0.70 µmol/L), providing newborns with a single oral dose of 50 000 IU of vitamin A within the first three days after birth may be considered to reduce infant mortality.

In making this recommendation, the GDG emphasized the need to avoid harm, given the uncertainty of the evidence and the conflicting results of research studies, as well as implementation costs.
36. Neonatal supplementation of vitamin D

Vitamin D supplementation in breastfed, term infants is recommended for improving infant health outcomes only in the context of rigorous research.

**Why?**
There is insufficient evidence on the benefits and harms, if any, of routine vitamin D supplementation on health outcomes of term, breastfed infants.

**What research?**
Research in this context includes adequately powered studies on the effect of neonatal vitamin D supplementation on mortality, morbidity, growth and development, including clinically relevant outcomes, assessment of vitamin D status and cost effectiveness of this intervention in breastfed and non-breastfed infants.
B.4 Infant growth and development

37. Whole-body massage

Gentle whole-body massage may be considered for term, healthy newborns for its possible benefits on growth and development.

Babies’ reactions to whole-body massage must be respected in line with the principles of responsive caregiving and respectful care. Massage should be used as an important opportunity to promote parent–infant interaction and stimulation for early childhood development.
B.4 Infant growth and development

38-41. Improving early childhood development

All infants and children should receive responsive care between 0 and 3 years of age; parents and other caregivers should be supported to provide responsive care.

All infants and children should have early learning activities with their parents and other caregivers between 0 and 3 years of age; parents and other caregivers should be supported to engage in early learning with their infants and children.

Support for responsive care and early learning should be included as part of interventions for optimal nutrition of newborns, infants and young children.

Psychosocial interventions to support maternal mental health should be integrated into early childhood health and development services.
B.5 Breastfeeding

42-43. Exclusive breastfeeding & supporting breastfeeding in health facilities

Exclusive breastfeeding

All babies should be exclusively breastfed from birth until 6 months of age. Mothers should be counselled and provided with support for exclusive breastfeeding at each postnatal contact.

Supporting breastfeeding in health facilities

Facilities providing maternity and newborn services should have a clearly written breastfeeding policy that is routinely communicated to staff and parents.

Health-facility staff who provide infant feeding services, including breastfeeding support, should have sufficient knowledge, competence and skills to support women to breastfeed.
Health systems and health promotion

Recommendations 44-55

Health systems and health promotion interventions
C Health systems and health promotion

44. Schedules for postnatal care contacts

A minimum of four postnatal care contacts is recommended:

If birth is in a health facility, healthy women and newborns should receive postnatal care in the facility for at least 24 hours after birth. If birth is at home, the first postnatal contact should be as early as possible within 24 hours of birth. At least three additional postnatal contacts are recommended for healthy women and newborns, between 48 and 72 hours, between 7 and 14 days, and during week 6 after birth.

At every contact:
Women, newborns, parents and caregivers should receive respectful, individualized, person-centred care. Care should include effective clinical practices, relevant and timely information, and psychosocial and emotional support. Care should be provided by kind, competent and motivated health workers who are working within a well-functioning health system.
45. Length of stay in health facilities after birth

Care for healthy women and newborns in the health facility is recommended for at least 24 hours after vaginal birth.

Key considerations for timing of discharge

The time needed to complete the assessment of a comprehensive set of criteria to evaluate maternal and newborn well-being and needs.

The health system’s capacity to organize postnatal care contacts after discharge.

Avoidance of unnecessarily prolonged stays in health facilities.
Prior to discharging women and newborns after birth from the health facility to the home, health workers should assess the following criteria to improve maternal and newborn outcomes:

+ the woman’s and baby’s physical well-being and the woman’s emotional well-being;
+ the skills and confidence of the woman to care for herself and the skills and confidence of the parents and caregivers to care for the newborn; and
+ the home environment and other factors that may influence the ability to provide care for the woman and the newborn in the home, and care-seeking behaviour.

These criteria should be assessed to guide health workers to identify and manage problems before discharge, to provide information as per the individual woman, newborn and family needs, and to establish links to follow-up care and additional support that may be required.
C Health systems and health promotion

47. Approaches to strengthen preparation for discharge from the health facility to home after birth

Information provision, educational interventions and counselling are recommended to prepare women, parents and caregivers for discharge from the health facility after birth to improve maternal and newborn health outcomes, and to facilitate the transition to the home. Educational materials, such as written/digital education booklets, pictorials for semi-literate populations and job aids should be available.

Source: UNICEF
C  Health systems and health promotion

48. Home visits for postnatal care contacts

Home visits during the first week after birth by skilled health personnel or a trained community health worker are recommended for the postnatal care of healthy women and newborns. Where home visits are not feasible or not preferred, outpatient postnatal care contacts are recommended.

The capacity of the health system to provide postnatal care home visits should be assessed based on:
+ local availability of skilled and trained health workforce
+ distribution of tasks among the health workforce and the competing responsibilities with other health programmes
+ capacity to provide initial and continuous training and supervision,
+ content of the postnatal care home visits
+ accessibility for hard to reach populations
+ coordination between facility- and community-based services
+ sustainability of the home visits programme and of the supply systems

Health systems and health promotion interventions
C Health systems and health promotion

49-50. Workforce interventions

Midwife-led continuity-of-care

Midwife-led continuity-of-care (MLCC) models, in which a known midwife or small group of known midwives supports a woman throughout the antenatal, intrapartum and postnatal continuum, are recommended for women in settings with well-functioning midwifery programmes.

Task sharing the promotion of health-related behaviours

Task sharing the promotion of health-related behaviours for maternal and newborn health to a broad range of cadres, including lay health workers, auxiliary nurses, nurses, midwives and doctors, is recommended.

Task sharing the provision of recommended postpartum contraception methods to a broad range of cadres, including auxiliary nurses, nurses, midwives and doctors, is recommended.
Health systems and health promotion

51. Workforce interventions

Health workforce in rural and remote areas

Policy-makers should consider a bundle of interventions covering education, regulation, incentives, and personal and professional support to improve health workforce development, attraction, recruitment and retention in rural and remote areas.
Interventions to promote the involvement of men during pregnancy, childbirth and after birth are recommended to facilitate and support improved self-care of women, home care practices for women and newborns, and use of skilled care for women and newborns during pregnancy, childbirth and the postnatal period, and to increase the timely use of facility care for obstetric and newborn complications.

These interventions are recommended, provided they are implemented in a way that respects, promotes and facilitates women’s choices and their autonomy in decision-making, and that supports women in taking care of themselves and their newborns.
The use of home-based records, as a complement to facility-based records, is recommended for the care of pregnant and postpartum women, newborns and children, to improve care-seeking behaviour, men’s involvement and support in the household, maternal and child home care practices, infant and child feeding, and communication between health workers and women, parents and caregivers.

WHO recommends digital targeted client communication for behaviour change regarding sexual, reproductive, maternal, newborn and child health, under the condition that concerns about sensitive content and data privacy are adequately addressed.

WHO recommends the use of digital birth notification under these conditions:

+ in settings where the notifications provide individual-level data to the health system and/or a civil registration and vital statistics (CRVS) system;

+ the health system and/or CRVS system has the capacity to respond to the notifications.
Implementation

+ The WHO postnatal care model
+ General implementation considerations
+ Considerations specific to individual recommendations
The WHO postnatal care model places the woman-newborn dyad at the centre of care, supported by quality care, family support, and continued support from health services.
## Putting the guideline into context

### General implementation considerations

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<td>+ Public health funding &amp; donors (e.g. in LMICs)</td>
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Putting the guideline into context

Considerations specific to individual recommendations

In addition to the overarching WHO model of intrapartum care, implementation considerations specific to individual recommendations are presented as a Web Annex.

The Web Annexes are available at https://www.who.int/publications/i/item/9789240045989

Source: UNICEF ROSA/2016/Nybo
WHO recommendations adaptation toolkit

To support implementation a WHO postnatal care recommendations adaptation toolkit will be available.

The toolkit will assist policy makers at the national level to adopt the WHO recommendations, by systematically adapting and effectively implementing the recommended interventions into routine practice.
Dissemination

+ Global launch with press release
+ WHO web resources
+ Social media
+ Translations
+ Conferences and webinars
This guideline will be disseminated through WHO regional and country offices, ministries of health, professional organizations, WHO collaborating centres, other United Nations agencies and nongovernmental organizations and professional associations.

This guideline will be available on the WHO website and also as a printed publication.
Applicability issues

+ Potential barriers to implementation
Potential barriers to implementation

1. Lack of human resources with the necessary expertise and skills to implement, supervise and support recommended practices.

2. Lack of infrastructure to support interventions (e.g. lack of electricity for refrigeration; lack of access to clean water and sanitation; lack of physical space to conduct individual care and counselling).

3. Difficulty accessing health services and health workers for women and newborns including lack of transport, geographical conditions, financial barriers.

4. Lack of effective referral mechanisms and care pathways for women and newborns identified as needing additional care (e.g. subsequent newborn assessments).
Effective implementation of the recommendations in this guideline may require reorganization of care and redistribution of health care resources. A phased approach to adoption, adaptation and implementation may be prudent.
Monitoring and evaluation

+ Monitoring framework
+ Suggested indicators
Monitoring framework

How do we track the performance and improve results?

The implementation and impact of these recommendations should be monitored at the health service, sub-national and national levels.

In collaboration with the monitoring and evaluation teams of the WHO Departments of MCA and SRH, data on country- and regional-level adoption of the recommendations will be collected and evaluated in the short to medium term across individual WHO Member States through the WHO Sexual, Reproductive, Maternal, Newborn, Child And Adolescent Health (SRMNCAH) Policy Survey.

A full monitoring framework will be developed once the guidelines are finalized. In the meantime, the GDG suggested 4 indicators, adapted from current global recommended indicators.
Suggested indicators

How do we track the performance and improve results?

Length of stay in health facilities after childbirth

Early routine postnatal care for women (within two days)

Early routine postnatal care for newborns (within two days)

Hepatitis B birth dose vaccination

+ LINK: World Health Organization maternal, newborn, child and adolescent health and ageing data portal
Updating the guideline

+ Living guidelines approach
+ New guideline questions?
+ Connecting with WHO
Living guidelines approach

A systematic and continuous process of surveillance, identification, and bridging of evidence gaps following guideline implementation will be employed.

An Executive Guideline Steering Group (GSG) for maternal and newborn health recommendations will convene biannually to review WHO’s portfolio of maternal and newborn health recommendations, and to prioritize new and existing recommendations for development and updating, including where new recommendations or a change in the published recommendations may be warranted.

WHO welcomes suggestions regarding additional questions for inclusion in future updates of this guideline; suggestions can be addressed by email to WHO MCA (mncah@who.int) and WHO SRH (srhmph@who.int).
WHO’s vision for quality care of women and newborns is that every pregnant woman and newborn receives quality care throughout pregnancy, childbirth and the postnatal period.

Avalon and her young son Caleb hold newborn baby Tina in Fiji in 2016. ©UNICEF/UN012494/Sokhin
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