## How do we care for neonatal infections? A Toolkit Guide

There are various tools and resources for the assessment, investigation and intervention involved in the care of newborns with infection available in the IPC Tools section. Some of the tools are here as a navigational guide to key resources. These are divided into levels of newborn care provided at facilities. For the purpose of this toolkit, most tools included are intended for use at all facilities (i.e. all levels of newborn care – including the most resource-limited facilities (Level 1)). Tools requiring greater resources can be observed within the higher levels of newborn care sections (Level 2-3).

NOTE: This is not a complete list of all tools in the toolkit. The complete tool list can be accessed via the <u>Tools Tab</u>.

NOTE: This guide was last updated on 17/10/2022

## All levels of care

These tools are aimed at all levels of newborn care (Level 1-3).

Tool type	Tools and Intended	Target Audience
	Purpose	
Resources useful for informing policy guidelines	WHO Standards for improving the quality of care for small and sick newborns in health	Policy-makers, health care professionals, health service planners, programme managers,
	facilities - Guide for countries in caring for this vulnerable population and support the quality of care of newborns in the context of universal health coverage.	regulators, professional bodies and technical partners involved in care
Resources useful for	WHO Recommendations	WHO staff, policy-
informing policy	on Newborn Health:	makers, programme
guidelines	Guidelines Approved By The WHO Guidelines	managers, and health professionals
	Review Committee (2017	
	revised edition) -	
	Summarises WHO	
	recommendations on	
	key newborn health	

	components relevant to	
	all levels of newborn	
	care.	
Practical manuals - LMIC	The Saving Newborn	Essential for those caring
focus	<u>Lives Care of the</u>	for all newborns in the
	Newborn - Reference	first 28 days of life,
The manuals in this	Manual, supplemented	whether community-
section were designed	by the Care of the	based health workers,
for low-resource settings	<u>Newborn - Training</u>	nurses, midwives, or
	<u>Guide</u> - To guide the	physicians
	training of all health care	
	workers in the best	
	practices for the health	
	and survival of newborn	
	infants	
Practical manuals - LMIC	The WHO Early essential	Newborn health workers
focus	newborn care: clinical	in LMIC settings.
	practice pocket	<u> </u>
The manuals in this	guide guides health	
section were designed	workers through the	
for low-resource settings	standard precautions	
	for <b>essential newborn</b>	
	care practices,	
	beginning at the	
	intrapartum period with	
	the process of preparing	
	the delivery area, and	
	emphasizing care	
	practices in the first	
	hours and days of a	
	newborn's life.	
Practical manuals - LMIC	The <u>USAID Improving</u>	Local care or quality
focus	Care of Mothers and	improvement
	Babies: A guide for	teams/committees.
The manuals in this	improvement	
section were designed	teams describes six	
for low-resource settings	steps to improve care	
	and tells a story of how	
	staff in a facility	
	followed these six steps	
	to provide better care.	
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Practical manuals - LMIC	Helping Babies Survive:	Information for parents
focus	<u>Parent's Guide and</u>	and carers.
	associated materials is a	
The manuals in this	new <b>training program</b>	
section were designed	on essential newborn	
for low-resource settings	care based on latest	
	WHO guidelines.	
	Developed by the	
	American Academy of	
	Pediatrics, the curriculum	
	begins after birth	
	throughout the first day	
	of the newborn's life, until	
	the time of discharge.	
Practical manuals - HIC	The NHS Toolkit for high-	Used by healthcare
focus	<u>quality neonatal</u>	managers,
	services aims to	committees, allied health
The manuals in this	facilitate the delivery of	professionals, neonatal
section were designed	equitable, transparent	services, clinical staff.
for high-resource	and auditable neonatal	·
settings	care. The <b>aim of the</b>	
	toolkit is to ensure that	
	premature and sick	
	newborn babies receive	
	the care necessary to	
	produce the best long-	
	term outcomes for	
	<b>them</b> and for their	
	families.	
Practical manuals - HIC	MoH British Columbia:	This is used by
focus	Coronavirus COVID-19	healthcare professionals
	Management	responsible for caring for
The manuals in this	Considerations for an	newborns (including
section were designed	Unwell and/or Premature	midwives, doctors, and
for high-resource	Newborn informs	nurses).
settings	the <b>management of</b>	,
J .	newborns in contact,	
	under clinical	
	investigation or	
	confirmed care of	
	COVID-19, including on	
	PPE precautions,	
	p. 00 dation 10,	

isolation, investigations,	
skin-to-	
skin, management and	
transfers relating to.	

## Tools by level of care

Tool type	Tools and intended purpose	Target audience
Level 1 - Immediate & Essential Newborn Care		
The tools included in this	section have an intended fo	cus on facilities aiming to
provide Level 1 newborn	care. However, facilities prov	viding Level 2 and Level 3
newborn care are exped	cted to be able to provide th	e components of Level 1
	newborn care.	
Practical manuals with	The WHO Essential	All recommendations
an LMIC focus -	Newborn Care	are for <b>skilled</b>
designed for low-	Course aims to ensure	attendants working at
resource settings	health workers have the	the primary level of
	skills and knowledge to	<b>health care</b> , either at the
	provide appropriate care	facility or in the
	at the most vulnerable	community
	period in a baby's life.	
	Health workers are	
	taught to use <b>WHO's</b>	
	Pregnancy, Childbirth,	
	Postpartum and	
	Newborn Care: A guide	
	for essential practice	
	(the PCPNC Guide) -	
	and particularly the	
	sections concerned with	
	newborn care –	
	that <b>provides up-to-</b>	
	date evidence-based	
	information and	
	management of babies	
	with a range of needs in	
	the initial newborn	
	period.	
Practical manuals with	The <b>Integrated</b>	IMCI is intended to
an LMIC focus -	Management of	be <b>applied by both</b>
	Childhood Illness	health workers and

	(13.401) :	
designed for low-	(IMCI) is a strategy that	other people
resource settings	integrates all available	responsible for the care
	measures for disease	of children under five
	prevention and health	<b>years of age</b> , i.e. their
	problems during	parents and those who
	childhood, for their early	care for them.
	detection and effective	
	treatment, and for	
	promoting healthy habits	
	within the family and	
	community. Section two	
	of the <u>WHO Integrated</u>	
	Management of	
	Childhood Illness (IMCI)	
	<u>Chart Booklet</u> provides	
	step-by-step primary	
	level management for	
	sick young infants up to	
	the age of two months. It	
	is particularly useful as a	
	guide for when to refer a	
	newborn for more	
	specialised care.	
Practical manuals with	The WHO Caring for the	Intended for use by
an LMIC focus -	sick child in the	clinical health workers
designed for low-	community: a training	(CHWs) in high HIV or TB
resource settings	course for community	settings.
	<u>health workers</u> ,	
	supported by the <b>WHO</b>	
	Caring for the sick child	
	in the community: photo	
	<b>book</b> is an adaption of	
	the IMCI guidelines.	
Practical manuals with	The WHO Guideline -	The target audience for
an LMIC focus -	Managing possible	this guideline includes: 1)
designed for low-	serious bacterial	national policy-makers
resource settings	infection in young infants	in health ministries; 2)
	when referral is not	programme managers
	<u>feasible</u> is intended <b>for</b>	working in child health,
	use in resource-limited	essential drugs and
	settings in situations	health worker training; 3)
	when families do not	health care providers

Dragation language with	accept or cannot access referral care. The goal of the guideline is to provide clinical guidance on the simplest antibiotic regimens that are both safe and effective for outpatient treatment of clinical severe infections and fast breathing (pneumonia) in children 0–59 days old.	and clinicians managing sick children at various levels of healthcare, including public and private practitioners; and 4) development partners providing financial and/or technical support for child health programmes.
Practical manuals with an LMIC focus - designed for low-resource settings	usald Basic Maternal and Newborn Care: A Guide for Skilled Providers - Basic care can be given in a variety of sites, including the woman's home, the peripheral health center, and the district referral hospital. It is assumed that the skilled provider will furnish all basic care services, identify and manage common complications, and stabilize (if necessary) and refer/transfer women and newborns needing additional	Intended for use by skilled providers (including midwives, doctors, and nurses) who care for women and newborns in low-resource settings
Practical manuals with an LMIC focus - designed for low- resource settings	interventions.  The Save the Children/UNICEF: Newborn Health in Humanitarian Settings is a Field Guide providing information related specifically to newborn care during the neonatal period (days 0-28 of life). It is designed as an	Its use is encouraged for advocacy and strengthening efforts of existing country programs for newborn care, regardless of whether such programs were developed in response to humanitarian crises or

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	enhancement to national	as permanent systems
	strategies and programs	during times of stability.
	aimed at improving the	The Field Guide can also
	lives of newborns and	be used for the
	their mothers, and to	development of the
	strategies such as the	neonatal component of
	Every Newborn Action	national emergency
	Plan (ENAP) The ultimate	preparedness and
	aim is to improve the	response plans.
	survival and wellbeing of	
	newborns in	
	humanitarian settings.	
Investigations	WHO Guidelines on	Health workers
	drawing blood: best	responsible for
The tools provided here	<u>practices in</u>	specimen collection
provide implementation	<u>phlebotomy</u> - These	from newborns.
guidance on performing	guidelines were	
procedures, such as	produced to improve the	
phlebotomy, on	quality of blood	
newborns	specimens and the	
	safety of phlebotomy for	
	health workers and	
	patients, by promoting	
	best practices in	
	phlebotomy.	
Targeted Interventions -	The South African	Used in health care
Prophylactic therapy	Department of Health	facilities, and by doctors,
	provide a	nurses and allied health
	comprehensive <u>Guideline</u>	workers at primary,
	for the Prevention of	secondary and tertiary
	Mother to Child	care levels where clients
	<u>Transmission of</u>	may require
	Communicable	uncomplicated PMTCT
	Infections, including HIV	care.
	and TB.	
Targeted Interventions -	The WHO <u>Guidance for</u>	The purpose of this
Prophylactic therapy	national tuberculosis	document is to provide
1 / 2 2 2 2 7 7 7	programmes on the	guidance to NTPs,
	management of	paediatricians and other
	tuberculosis in children:	health workers, including
	2nd edition document is	the private-for-profit
	targeted at national TB	sector, as well as to
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	programmes,	nongovernmental
	paediatricians and other	organizations and other
	health workers in low-	civil society
	and middle-income	organizations, on the
	countries; it does not aim	implementation and
	to outline	scaling-up of childhood
	recommendations for	TB prevention, care and
	high-income countries	control activities.
	with low TB prevalence.	
Supportive Interventions	The <u>Royal College of</u>	All registered nurses,
- Monitoring	Nursing - Standards for	students, health care
	Assessing, Measuring	support workers, and
	and Monitoring Vital	assistant practitioners
	Signs in Infants, Children	who observe and
	and Young People is a	monitor infants, children
	useful general resource	and young people.
	for newborn	and young people.
	monitoring. Each topic	
	covered in this	
	publication includes the	
	standard itself, a set of	
	practice criteria and	
	information on	
	underpinning literature.	
	The standards provide	
	criteria for practitioners	
	in achieving high quality	
	nursing care. They will be	
	of help in guiding local	
	policies and procedures	
	in relation to vital sign	
	monitoring, performance	
	improvement	
	programmes and	
	education programmes	
	for registered nurses,	
	nurses in training and	
	health care assistants.	
Supportive Interventions	The <u>USAID Kangaroo</u>	Guidance primarily for
- <u>Kangaroo Mother Care</u>	Mother Care:	national-level
(KMC)	<u>Implementation</u>	policymakers and
	Guide brings together	managers of maternal

	the knowledge and experience of people and organisations from many countries in the world who have introduced KMC services in health systems. The ultimate aim is to introduce, expand and strengthen KMC practices to improve survival of low birth weight and preterm babies.	and newborn health programs.
Supportive Interventions - Kangaroo Mother Care (KMC)	The MRC Implementation Workbook for Kangaroo Mother Care was originally developed as part of the MKC implementation package. The aim of this workbook is to help to avoid many of the pitfalls encountered when a new intervention is introduced.	The target users are mainly the staff of healthcare facilities.
Supportive Interventions - Kangaroo Mother Care (KMC)	The WHO Kangaroo Mother Care - A Practical Guide refers to KMC initiated at a health facility and continued at home under the supervision of the health facility (domiciliary KMC). KMC as described in this document recommends continuous skin-to-skin contact acknowledging that it might not be possible in all settings and under all circumstances. The principles and practice	The target users are mainly the staff of healthcare facilities.

	of KMC outlined in this	
	document are also valid	
	for intermittent skin-to-	
	skin contact, provided	
	adequate care is offered	
	to LBW and preterm	
	newborn infants when	
	they are separated from	
	their mothers.	
Supportive Interventions	The SNL KMC Monitoring	Any healthcare worker
- Kangaroo Mother Care	Indicators document	implementing a KMC
(KMC)	includes a minimum set	programme in the
(	of indicators to monitor	facility in which they
	and evaluate facility-	work.
	based Kangaroo Mother	3
	Care (KMC). There are	
	two different types of	
	indicators – core	
	indicators and	
	supplementary indicators.	
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Supportive Interventions	UNICEF/WHO Protecting,	The intended audience
- Breastfeeding/Feeding	promoting and	of this document
	supporting breastfeeding	includes all those who
	in facilities providing	set policy for, or offer
	maternity and newhorn	care to, pregnant
	maternity and newborn	. •
	services: implementing	women, families and
	services: implementing the revised Baby-friendly	women, families and infants: governments;
	services: implementing the revised Baby-friendly Hospital Initiative 2018 –	women, families and infants: governments; national managers of
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated	women, families and infants: governments;
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation	women, families and infants: governments; national managers of maternal and child health programmes in
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for	women, families and infants: governments; national managers of maternal and child
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation	women, families and infants: governments; national managers of maternal and child health programmes in
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for	women, families and infants: governments; national managers of maternal and child health programmes in general, and of
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to,	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to, pregnant women,	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related programmes in
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to, pregnant women, families and infants:	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related programmes in particular; and health-
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to, pregnant women, families and infants: governments; national	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related programmes in particular; and health-facility managers at
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to, pregnant women, families and infants: governments; national managers of maternal	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related programmes in particular; and healthfacility managers at different levels (facility
	services: implementing the revised Baby-friendly Hospital Initiative 2018 – This updated implementation guidance is intended for all those who set policy for, or offer care to, pregnant women, families and infants: governments; national managers of maternal and child health	women, families and infants: governments; national managers of maternal and child health programmes in general, and of breastfeeding- and BFHI-related programmes in particular; and health-facility managers at different levels (facility directors, medical

	programmes in	
	particular; and health-	
	facility managers at	
	different levels (facility	
	directors, medical	
	directors, chiefs of	
	maternity and neonatal	
	wards).	
Supportive Interventions	WHO Guidelines: Optimal	The primary audience for
- Breastfeeding/Feeding	feeding of low birth-	these guidelines is
	weight infants in low-and	intended to be health-
	middle-income	care workers in first-level
	<u>countries</u> – The objective	health facilities and
	of these guidelines is to	referral hospitals.
	improve the quality of	However, the guidelines
	care received by LBW	are expected to be used
	infants in developing	by policy-makers,
	countries through	programme managers
	improved capacity of	and health-facility
	health workers. These	managers to set up a
	guidelines focus on the	system for optimal care
	feeding of clinically	of LBW infants.
	stable LBW infants in low-	
	and middle- income	
	countries. They do not	
	specifically address the	
	feeding of infants with a	
	birth weight less than 1.0	
	kg (known as extremely	
	LBW, ELBW), who are	
	often clinically unstable	
	and may require	
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Cupportivo	parenteral nutrition.	Econotial for these caring
Supportive Interventions-	NHS Neonatal Jaundice	Essential for those caring
	Clinical Guideline - This	for newborns, whether
Jaundice/Phototherapy	clinical guideline	nurses, midwives, or
	concerns the	physicians etc.
	management of	
	neonatal jaundice in	
	babies from birth up to	
	28 days of age.	

Supportivo	Queensland Health	Essential for those earing
Supportive Interventions-		Essential for those caring
	Neonatal Jaundice	for newborns, whether
Jaundice/Phototherapy	Clinical Guidelines - This	nurses, midwives, or
	guide contains clinical	physicians etc.
	guidelines for the	
	management of	
	neonatal jaundice.	
Supportive	NHS Neonatal Jaundice	Intended for midwives,
Interventions-	<u>Treatment Threshold</u>	doctors, and nurses, who
Jaundice/Phototherapy	<u>Graphs</u> accompanied by	care for newborns.
	editable <u>Microsoft Excel</u>	
	spreadsheet copies -	
	These documents	
	provide worksheets to	
	capture jaundice	
	treatment threshold	
	graphs.	
Supportive	Ontario Clinical Pathway	Intended for use by
Interventions-	Handbook for	skilled providers
Jaundice/Phototherapy	Hyperbilirubinemia in	(including midwives,
, ,	Term and Late Preterm	doctors, and nurses)
	Infants (≥35 weeks) - This	who care for newborns.
	clinical handbook has	Wile said for flewborns.
	been created to serve as	
	a compendium of the	
	evidence-based	
	rationale and clinical	
	consensus for	
	Hyperbilirubinemia in	
	Term and Late-Preterm	
Cupportive Interventions	Infants (≥ 35 weeks).	Information for
Supportive Interventions	The WHO Thermal	Information for
- Thermal Care	Protection of the	healthcare managers
	Newborn: A Practical	and care providers.
	Guide provides a basis	
	on which managers and	
	health care providers	
	can develop their own	
	strategies and	
	procedures for thermal	
	protection and	
	management of	

	hypothermia and hyperthermia of newborn	
	babies.	
Supportive Interventions - Thermal Care	Thermal Protection of the Premature Infant - This brief summary reviews the thermal physiology in the premature infant, mechanisms of heat loss,	Intended for use by skilled providers (including midwives, doctors, and nurses) who care for premature newborns.
	and provide a review of the way we control the thermal environment of the premature infant.	
Supportive Interventions - Thermal Care	Newborn Thermoregulation: A Self-Learning Package This document provides information relating to sign, prevention and	Intended for use by skilled providers (including midwives, doctors, and nurses) who care for newborns.
	treatment of hypo- and hyperthermia.	
Supportive Interventions - Thermal Care	NHS Thermal care of the Neonate - Document Control - The purpose of this document is to give guidance on: How to create and maintain a neutral thermal environment for the baby. Minimizing the risks associated with hypothermia and hyperthermia	This guideline applies to midwives and clinical staff on special care unit.
Supportive Interventions - Thermal Care	Thermoregulation in the High Risk Infant - The aim of thermal management is to identify the correct goal of thermal management (normothermia or hypothermia) and to	This is used by healthcare professionals responsible for caring for newborns (including midwives, doctors, and nurses).

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	maintain the infant	
	within an appropriate	
	thermal environment for	
	their birth weight,	
	gestation and postnatal	
	age. In order to achieve	
	this, an understanding of	
	the principles of	
	thermoregulation is	
	needed, which is	
	explained in this manual,	
	along with <b>guidelines on</b>	
	temperature	
	management and	
	monitoring of the	
	newborn.	
Supportive Interventions	Management of Thermal	This is used by
- Thermal Care	Care in Newborn Babies -	healthcare professionals
	This guideline relates to	responsible for caring for
	the care of any baby,	newborns (including
	especially those at risk of	midwives, doctors, and
	hypothermia (any baby	nurses).
	whose temperature is	,
	below 36.50 for more	
	than 1 hour at any time	
	who is more than 28	
	weeks gestation).	
Supportive Interventions	The <u>Helping Babies</u>	Intended for birth
- Respiratory Care	Breathe: Provider	attendants/clinical staff.
,	Guide teaches birth	,
	attendants how to care	
	for newborns at birth. All	
	babies need to be kept	
	clean, warm, and helped	
	to breastfeed. Babies	
	who do not breathe need	
	extra help in the first	
	minute after birth.	
	Helping Babies Breathe	
	focuses on The Golden	
	Minute when stimulation	
	to breathe and	

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	ventilation with bag and mask can save a life. At least one person skilled in helping a baby breathe should be present at every birth.	
Supportive Interventions - Respiratory Care	Oxygen therapy for children - The manual is part of a series of resources for improving the quality of care for severely ill children in health facilities. It supports the improved use and availability of oxygen therapy in low resource settings. The manual addresses the need for appropriate detection of hypoxaemia and use of pulse oximetry, oxygen delivery systems and monitoring of patients on oxygen therapy.	This manual is intended primarily for use by health care providers, policy makers, biomedical engineers, child health programme managers, health facility administrators, and other paramedical professional staff involved in the care of children.
Supportive Interventions - Respiratory Care	Manual of neonatal respiratory care - This book covers the "how-to" of respiratory care of newborns. Chapters reflect the evolving worldwide approaches to neonatal respiratory failure, such as sustained inflation, optimization of lung volume, and the use of volumetric capnography, aerosol therapy, and management of chylothorax.	Intended for use by skilled providers (including midwives, doctors, and nurses) who care for newborns.

Outbrook Propagation	Neonates born to	Intended for use by skilled
Outbreak Propagation	confirmed or suspected	providers (including
	•	midwives, doctors, and
	COVID-19 mothers - This	nurses) who care for
	guideline focuses on the	newborns.
	clinical care of neonates	
	with suspected or	
	confirmed COVID-19	
	disease.	
Medical Records	MPS Essential Guide to	Information for regional
	Medical Records (UK) -	health directors, health
	Though not relevant in all	care providers, data
	areas due to differing	departments and
	national laws on medical	collectors.
	records, this guide	
	provides information on:	
	content, presentation	
	and confidentiality.	
	Similarly, the <u>PRSB</u>	
	Standards for	
	the Structure and	
	Content of Health and	
	<u>Care Records</u> offers draft	
	examples of admission,	
	handover, discharge and	
	referral records.	
Leve	l 2 - Special Newborn	Care
Practical manuals with	WHO Pocket Book of	This pocket book is for
an LMIC focus	<u>Hospital Care for</u>	use by doctors, senior
	<u>Children</u> – This	nurses and other senior
	document presents up-	health workers who are
	to-date clinical	responsible for the care
	guidelines which are	of young children at the
	based on a review of the	first referral level in
	available published	developing countries.
	evidence by subject	
	experts, for both	
	inpatient and outpatient	
	care in small hospitals	
	where basic laboratory	
	facilities and essential	

	drugs and inexpensive	
	medicines are available.	
Practical manuals with	The WHO Managing	A guide for doctors,
an LMIC focus	newborn problems: a	nurses and midwives.
an Living rocus	guide for doctors, nurses,	Tidises dila Tilawives.
	and midwives guide was	
	produced to assist	
	countries with limited	
	resources in their efforts	
	to reduce neonatal	
	mortality and to ensure	
	care for newborn babies	
	with problems due to	
	complications of	
	pregnancy and	
	childbirth, such as	
	asphyxia, sepsis, and low	
	birth weight or preterm	
	birth. It is a large	
	resource, divided into	
	three sections: (1)	
	assessment, findings and	
	management, (2)	
	principles of newborn	
	baby care, (3)	
	procedures. It also	
	includes an appendix	
	with guidelines on record	
	keeping and essential	
	equipment, supplies and	
	drugs.	
Investigations	The MRCG Study Specific	Essential for those caring
investigations	Procedure: Blood,	for preterm newborns,
		whether nurses,
	Nasopharyngeal Swab, Rectal, Genital Swab &	·
		midwives, or physicians
	Cerebrospinal Fluid	in LMIC settings.
	Collection document	
	describes the collection	
	of blood, NPS, RVS, RS and	
	CSF samples from	
	patients and the	
	transportation of these	

	samples to the relevant	
	laboratories.	
Targeted	The WHO Step-by-step	Hospital management
Interventions -	approach for	staff responsible for
Antibiotic treatment	development and	developing policies and
	implementation of	standard treatment
	hospital antibiotic policy	guidelines (STG) -
	and standard treatment	particularly pertaining to
	guidelines document	antibiotic guidelines.
	focuses on the	_
	mechanism to develop a	
	practically applicable	
	hospital antibiotic policy	
	and standard treatment	
	guidelines (STG). In	
	addition, the document	
	contains information on	
	various effective	
	strategies for	
	implementation of STG. It	
	also discusses various	
	activities and	
	information required for	
	the development of the	
	antibiogram, antibiotic	
	policy and standard	
	treatment guidelines,	
	such as surveillance	
	programmes, the cause	
	and controlling	
	strategies for AMR and	
	HAI; performance	
	measures of	
	antibiogram, antibiotic	
	policy and standard	
	treatment guidelines.	
Targeted	NICE Neonatal infection:	Intended for use by
Interventions -	antibiotics for prevention	skilled providers
Antibiotic treatment	and treatment guidelines	(including midwives,
	- This guideline covers	doctors, and nurses)
	preventing bacterial	who care for newborns.
	infection in healthy	

babies of up to and including 28 days corrected gestational age, treating pregnant women whose unborn baby is at risk of infection, and caring for babies of up to and including 28 days corrected gestational age with a suspected or confirmed bacterial infection. It aims to reduce delays in recognising and treating infection and prevent unnecessary use of antibiotics. The guideline does not cover viral infections.

Targeted Interventions -Antibiotic stewardship programmes The CDC The Core **Elements of Human** Antibiotic Stewardship <u>Programs in Resource-</u> <u>Limited Settings: National</u> <u>and Hospital Levels</u> – This document seeks to provide a framework for thinking about implementation of antibiotic stewardship programs in such settings and the approach outlined here is based on expert opinion and experiences in implementing ASPs in the United States and globally. The document includes both national and facility-level

activities, as the former

This guide is intended primarily for use by national and facility-level health care managers, policy makers, clinical teams, and other paramedical professional staff.

	are a critical compliment	
	to the activities that are	
	undertaken in hospitals and other health care	
	facilities.	
Targeted	The WISH Global Core	Hospital-level
Interventions -	Standards for Hospital	antimicrobial
Antibiotic stewardship	<u>Antimicrobial</u>	stewardship committees
programmes	Stewardship Program is	and clinical staff.
	an evidence-based	
	checklist through a	
	comprehensive literature	
	search and review by a	
	group of independent	
	experts – the Checklist	
	for Hospital Antimicrobial	
	Stewardship	
	Programming (CHASP).	
	While CHASP has	
	significant overlap with	
	other high-quality ASP	
	checklists – such as the	
	US Centers for Disease	
	Control's (CDC's)	
	Checklist for Core	
	Elements of Hospital Antibiotic Stewardship –	
	it was designed to be	
	applicable globally for	
	both low- and high-	
	resource settings.	
Targeted	The GLASS Methodology	This document is aimed
Interventions -	for surveillance of	at government/national
Antibiotic stewardship	national antimicrobial	agencies, committees
programmes	consumption - WHO	and units focused
	GLASS component on	on pharmaceutical
	surveillance of national	supply chain systems,
	antimicrobial	AMR and health data
	consumption (GLASS-	surveillance and
	AMC) aims to provide a	management. national
	common and	AMR committee.
	standardized	

Targeted	methodology for monitoring the consumption of antimicrobial agents at country level. The standardization allows the follow-up of data trends over time, facilitates comparisons between countries, and informs policy and practice on how to optimize the use of antimicrobials at national, regional and global levels.  The WHO Practical	The target audience for
Interventions -	Toolkit: Antimicrobial	this guideline includes: 1)
Antibiotic stewardship	<u>stewardship</u>	national policy-makers
programmes	<u>programmes in health-</u>	in health ministries; 2)
	care facilities in low- and	programme managers
	middle-income	working in quality-
	<u>countries</u> aims to	assured medical care
	support countries in	and access to and
	implementing Objective	rational use of
	4 of the Global Action	medicines; 3) health
	Plan – "optimize the use	care providers, AMR
	of antimicrobial	committees and
	medicines" - by	clinicians and 4)
	providing practical	development partners
	guidance on how to	providing financial
	implement antimicrobial	and/or technical
	stewardship (AMS)	support.
	programmes in the	
	human health sector at	
	the national and health-	
	care facility level in low-	
	and middle-income	
Cupportive Interventions	countries (LMICs). The California Perinatal	Information for clinical
Supportive Interventions		Information for clinical staff.
- Feeding	Quality Care	Stuff.
	Collaborative (CPQCC)	

	Ι	
	have revised	
	their <u>Nutritional Support</u>	
	of the Very Low Birth	
	Weight (VLBW) Infant	
	Toolkit which is	
	intended <b>to promote</b>	
	rapid assessment of	
	current nutritional	
	practices for small	
	<b>newborns</b> . The revisions	
	outline potentially better	
	practices, enable rapid	
	multidisciplinary	
	improvement cycles to	
	improve nutritional	
	outcomes for premature	
	newborns by adding	
	important new	
	references, streamline	
	recommendations, and	
	target the best	
	resources.	
Supportive Interventions	Continuous Positive	Intended for use by
- Respiratory Support	Airway Pressure (CPAP)	skilled providers
	Manual This manual	(including midwives,
	provides a brief overview	doctors, and nurses)
	of the use of CPAP	who care for newborns.
	including indications,	
	contraindications and	
	types of CPAP.	
Supportive Interventions	Neonatal exchange	Used by healthcare
- Jaundice	transfusion - This	professionals
	guidance focuses on	responsible for caring for
	exchange transfusion of	newborns (including
	newborns, providing	midwives, doctors, and
	information relating to	nurses).
	indications, preparation,	
	setup and procedure.	
Supportive Interventions	Kalafong Hospital in	Clinical staff of neonatal
- Jaundice	South Africa provides	
- Jauriaic <del>e</del>	'	units in LMIC settings.
	a Neonatal Jaundice	
	Management Flow	

information on bilirubin assessment, phototherapy and exchange transfusion.  Supportive Interventions - Medical Devices  - Medical Devices  Selection - Medical Devices - In 2009, PATH convened a panel of neonatologists to review the most important characteristics for devices in low-resource settings. This guide contains commercialized devices that are available on the market today (focused on CPAP, Fetal Monitor, thermoregulatory devices, Birthing and Cesarean Section Simulators, Portable Ultrasound, Rechargeable Lighting.  Supportive Interventions - Medical Devices  - Medical Devices  Supportive Interventions - Medical Devices Information to parents and carers on ward devices, explaining what they are used to care for babies.  Level 3 - Intensive Newborn Care  Supportive Interventions - Respiratory Support  NHS Neonatal Ventilation - This skilled providers		Chart which provides	
assessment, phototherapy and exchange transfusion.  Supportive Interventions - Medical Devices  - Medical Devices  PATH & USAID Guide to Selection - Medical Devices - In 2009, PATH convened a panel of neonatologists to review the most important characteristics for devices in low-resource settings. This guide contains commercialized devices that are available on the market today (focused on CPAP, Fetal Monitor, thermoregulatory devices, Birthing and Cesarean Section Simulators, Portable Ultrasound, Rechargeable Lighting.  Supportive Interventions - Medical Devices  - Medical Devices  Supportive Interventions and carers on ward devices, explaining what they are, and how they are used to care for babies.  Level 3 - Intensive Newborn Care  Supportive Interventions - Respiratory Support  NHS Neonatal Ventilation - This skilled providers		Chart which provides	
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- Medical Devices    Unit: Neonatal   Equipment - This   document provides   information to parents   and carers on ward   devices, explaining what   they are, and how they   are used to care for   babies.    Level 3 - Intensive Newborn Care	Supportive Interventions		Information for parents
Equipment - This document provides information to parents and carers on ward devices, explaining what they are, and how they are used to care for babies.  Level 3 - Intensive Newborn Care  Supportive Interventions - Respiratory Support  NHS Neonatal Ventilation - This  skilled providers	• •		•
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Level 3 - Intensive Newborn Care  Supportive Interventions - Respiratory Support  Support Ventilation - This skilled providers			
Supportive Interventions - Respiratory Support - This Skilled providers			_
- Respiratory Support <u>Ventilation</u> - This skilled providers	Level	3 - Intensive Newborr	n Care
	Supportive Interventions	NHS Neonatal	Intended for use by
document provides (including midwives	- Respiratory Support	<u>Ventilation</u> -This	skilled providers
(morading mawives,		document provides	(including midwives,
information on additional doctors, and nurses)		information on additional	doctors, and nurses)
respiratory support, when		respiratory support, when	

Γ	T	
	babies are unable to	who care for newborns in
	achieve satisfactory gas	NICU settings.
	exchange by themselves.	
	Whilst we now commonly	
	use non-invasive	
	techniques (CPAP / Hi-	
	flow), a good	
	understanding of how	
	and when to use	
	mechanical ventilation is	
	a key part of neonatal	
	care.	
Supportive Interventions	NICE Guidelines:	Essential for those caring
- Respiratory Support	Specialist neonatal	for preterm newborns,
	respiratory care for	whether nurses,
	<u>babies born preterm</u> -	midwives, or physicians
	This guideline covers	in NICU settings.
	specific aspects of	G
	respiratory support (for	
	example, oxygen	
	supplementation,	
	assisted ventilation,	
	treatment of some	
	respiratory disorders,	
	and aspects of	
	monitoring) for preterm	
	babies in hospital.	
H	lealth Service Consideration	S
Infrastructure and space	UNICEF Toolkit for Setting	Purpose of this toolkit is
•	Up Special Care Newborn	to support the efforts of
	Units, Stabilisation Units	state and district health
	and Newborn Care	administrators, health
	Corners – The purpose of	care entrepreneurs and
	this toolkit is to support	others involved in
	the efforts of state and	planning and managing
	district health	Facility Based Care for
	administrators, health	Newborns at various
	care entrepreneurs and	levels.
	others involved in	
	planning and managing	
	Facility Based Care for	

Newborns at various

levels. It provides recommendations on setting up Special Care Newborn Units (SCNUs), Stabilisation Units and Newborn Care Corners at different levels of healthcare organisation. The recommendations relate to the services, design, infrastructure, equipment, supplies and human resource requirements for providing newborn care at these levels. The document also provides detailed specifications of the equipments and tips for maintenance and use of the equipments.

## Infrastructure and space

on Recommended <u>Design Standards for</u> **Advanced Neonatal Care** - Newborn ICU Design - It is our hope this document will continue to provide the basis for a consistent set of standards that can be used by all states and endorsed by appropriate national organizations and that it will continue to be useful in the international arena. While many of these standards are minimums, the intent is to optimize design within the constraints of

Consensus Committee

This document is intended primarily for use by health care providers, policy makers, biomedical engineers, laboratory managers, health facility administrators, and government/state decision makers.

	T	
	available resources and	
	to facilitate excellent	
	health care for the infant	
	in a setting that supports	
	the central role of the	
	family and the needs of	
	the staff. Decision	
	makers may find these	
	standards do not go far	
	enough, and resources	
	may be available to push	
	further toward the ideal.	
<u>Human Resources</u>	Understaffing in NICUs	Staff of Special Care
	has been associated	Units (SCU), Local
	with increased risk of	Neonatal Units (LNU) and
	HCAIs. This is a challenge	Neonatal Intensive Care
	even in HICs. In the UK,	Units (NICU).
	54% of nursing shifts	
	failed to meet the <u>British</u>	
	<u>Association of Perinatal</u>	
	Medicine (BAPM) Service	
	Standards for hospitals	
	providing neonatal	
	care (3rd edition).	
	See <b>section 4.9, page</b>	
	<b>9</b> for staffing	
	recommendations).	
	Updated findings to this	
	resource, with regards to	
	NICU staffing needs, can	
	be found in the BAPM	
	Optimal Arrangements	
	for Neonatal Intensive	
	Care Units in the UK	
	including guidance on	
	their Medical Staffing.	
	Further information can	
	be found on the HR HSBB.	
<u>Data</u>	The WHO Operational	The guide also provides
	guide for facility-based	guidance for
	audit and review of	establishing and
	paediatric	conducting child death
	padalatilo	conducting child death

	mortality describes	audits for policy-makers
	the processes and steps	at national and
	in setting up a national	subnational levels,
	and a health facility	clinicians, nurses, local
	_	health administrators,
	system for reviewing or	·
	auditing child deaths,	mortality and morbidity
	near misses, cases and	review committees and
	adverse events in health	quality improvement
	facilities. The guide	teams in hospitals.
	outlines the conduct of	
	child deaths audits and	
	reviews in order to	
	improve the quality of	
	care and prevent future	
	deaths by systematic,	
	critical analysis of the	
	quality of care received	
	in a "no-blame",	
	multidisciplinary setting.	
	The guide provides	
	examples of tools that	
	can be used or adapted	
	for collecting data for	
	death reviews, analysis	
	and response to the	
	results of audits.	
Data	The WHO Application of	Those who assist health-
	ICD-10 to deaths during	care providers and those
	the perinatal period: ICD-	charged with death
	PM_document presents a	certification.
	brief summary of the	
	development of this	
	guide; a grouping	
	system for identification	
	of perinatal deaths using	
	existing ICD-10 codes,	
	which countries can	
	immediately implement.	
<u>Family-Centred Care</u>	The Baby Friendly	Staff of neonatal units
ranniy Contica Care	Initiative is a global	that want to aim for
	programme of UNICEF	Baby Friendly standards.
	and the WHO introduced	baby menuny standards.
	and the Who introduced	

	T	
	to improve infant feeding	
	and skin-to-skin care in	
	healthcare settings.	
	The <u>Baby Friendly</u>	
	<u>Initiative - Guidance for</u>	
	Neonatal Units outlines	
	the stages of	
	accreditation for	
	neonatal units wanting	
	to be recognised as	
	Baby Friendly units.	
Family-Centred Care	Bliss Baby Charter Audit	Neonatal unit clinical
,	Tool - The new Bliss Baby	staff and quality
	Charter Audit Tool has	improvement teams.
	been specifically	
	designed to provide a	
	framework for units to	
	examine key aspects of	
	their unit's service	
	provision, and to help	
	staff make family-	
	centred care a reality.	
Family-Centred Care	CHKD NICU: Essential	Information for parents
	Guide for CHKD NICU	and carers, whose
	<u>Parents</u> - This is an	newborn is admitted.
	example document	
	providing important	
	information to parents	
	whose newborn is	
	admitted into a NICU.	