OU13 EUTID

POCKET BOOK OF

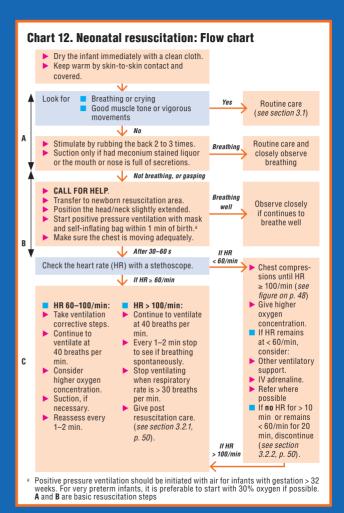
# **Hospital care** for children



GUIDELINES FOR THE MANAGEMENT OF COMMON CHILDHOOD ILLNESSES

**Second edition** 





# Triage of all sick children

#### **EMERGENCY SIGNS:**

If any sign is positive, call for help, assess and resuscitate, give treatment(s), draw blood for emergency laboratory investigations (glucose, malaria smear, Hb)

#### **ASSESS**

### TREAT

Do not move neck if a cervical spine iniury is possible, but open the airway.

# Airway and breathing

- Obstructed or absent breathing nr
- Central cyanosis nr
- Severe respiratory distress

### Circulation

Cold skin with:

- Capillary refill longer than 3 s and
- Weak and fast pulse

ANY SIGN POSITIVE

### If foreign body aspirated

Manage airway in choking child (Chart 3)

# If no foreign body aspirated

- ► Manage airway (Chart 4)
- ► Give oxygen (Chart 5)
- Make sure the child is warm.
- Stop any bleeding SIGNS POSITIVE

Check for

severe

malnutrition

- ► Give oxvgen (Chart 5)
- Make sure the child is warm

### If no severe malnutrition

Insert an IV line and begin giving fluids rapidly (Chart 7).

If peripheral IV cannot be inserted, insert an intraosseous or external jugular line (see pp. 340-342).

### If severe malnutrition:

If lethargic or unconscious:

- ► Give IV glucose (Chart 10).
- Insert IV line and give fluids (Chart 8).

If not lethargic or unconscious:

- Give glucose orally or by nasogastric tube.
- Proceed immediately to full assessment and treatment.

### **EMERGENCY SIGNS:**

If any sign is positive; call for help, assess and resuscitate, give treatment(s), draw blood for emergency laboratory investigations (alucose, malaria smear, Hb)

#### **ASSESS**

### TREAT

Do not move neck if you suspect cervical spine injury, but open the airway.

### Coma/ convulsing

- Coma or
- (now)

# CONVULSION

two sians

positive

Check for

severe

malnutrition

Convulsing

#### Severe dehydration DIARRHOEA **PLUS** (only in a child

with diarrhoea) Diarrhoea plus any two of these

- sians: Lethardy
- Sunken eves
- Very slow skin pinch
- Unable to drink or drinks poorly

- Manage the airway (Chart 4)
- If convulsing, give diazepam rectally (Chart 9)
- Position the unconscious child (if head or neck trauma is suspected. stabilize the neck first) (Chart 6).
- Give IV glucose (Chart 10).
- Make sure the child is warm

# If no severe malnutrition:

Insert an IV line and begin giving fluids rapidly following Chart 11 and diarrhoea treatment plan C in hospital (Chart 13, p. 131).

### If severe malnutrition:

- Do not insert an IV line
- Proceed immediately to full assessment and treatment (see section 1.4, p. 19).

### PRIORITY SIGNS

# These children need prompt assessment and treatment

- Tiny infant (< 2 months)
- Temperature very high
- Trauma or other urgent surgical condition
- Pallor (severe)
- Poisoning (history of)
- Pain (severe)
- Respiratory distress

- Restless, continuously irritable, or lethargic
- Referral (urgent)
- Malnutrition: visible severe wasting Oedema of both feet or face
- Burns (major)

Note: If a child has trauma or other surgical problems. get surgical help or follow surgical guidelines.

# **NON-URGENT**

Proceed with assessment and further treatment according to the child's priority.

# POCKET BOOK OF

# **Hospital care** for children

GUIDELINES FOR THE MANAGEMENT OF COMMON CHILDHOOD ILL NESSES

**Second edition** 



WHO Library Cataloguing-in-Publication Data:

Pocket book of hospital care for children: guidelines for the management of common childhood illnesses – 2nd ed

1.Pediatrics. 2.Child care. 3.Child, Hospitalized. 4.Child health services.

5. Guideline, I. World Health Organization.

ISBN 978 92 4 154837 3 (NLM classification: WS 29)

## © World Health Organization 2013

All rights reserved. Publications of the World Health Organization are available on the WHO web site (www.who.int) or can be purchased from WHO Press, World Health Organization, 20 Avenue Appia, 1211 Geneva 27, Switzerland (tel.: +41 22 791 3264; fax: +41 22 791 4857; e-mail: bookorders@who.int). Requests for permission to reproduce or translate WHO publications – whether for sale or for non-commercial distribution – should be addressed to WHO Press through the WHO web site (www. who.int/about/licensing/copyright\_form/en/index.html).

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use.

Designed by minimum graphics Printed in Malta

# **Contents**

Pret	ace		ΧV	
Ackr	nowledg	gements	xviii	
Abbreviations				
		1: Stages in the management of a sick child admitted pital: key elements	xxii	
1. T	RIAGE A	AND EMERGENCY CONDITIONS	- 1	
1.1	Triage		2	
1.2	Summ	ary of steps in emergency triage assessment and treatment	3	
1.3	Asses	sment of emergency and priority signs	4	
	Triage	of all sick children	5	
	How to	o manage a choking infant or child	7	
	How to	o manage the airway in a child with obstructed breathing	9	
	How to	o give oxygen	11	
	How to	position the unconscious child	12	
	Give I	V fluids for shock in a child without severe acute malnutrition	13	
	Give I	V fluids for shock in a child with severe acute malnutrition	14	
	Give d	iazepam rectally	15	
	Give I	√ glucose	16	
	Treat	severe dehydration in an emergency setting	17	
1.4	Emerg	ency treatment for a child with severe malnutrition	19	
1.5	Diagn	ostic considerations for children with emergency conditions	20	
	1.5.1	Child presenting with an airway or severe breathing probler	n 20	
	1.5.2	Child presenting with shock	21	
	1.5.3	Child presenting with lethargy, unconsciousness or convulsions	23	
1.6	Comm	non poisoning	26	
	1.6.1	Principles for ingested poisons	27	
	1.6.2	Principles for poisons in contact with skin or eyes	29	

### HOSPITAL CARE FOR CHILDREN

	1.6.3	Principles for inhaled poisons	29
	1.6.4	Specific poisons	29
		Corrosive compounds	29
		Petroleum compounds	30
		Organophosphorus and carbamate compounds	30
		Paracetamol	31
		Aspirin and other salicylates	31
		Iron	32
		Morphine and other opiates	32
		Carbon monoxide	33
	1.6.5	Prevention of poisoning	33
1.7	Drown	ing	33
1.8	Electro	ocution	34
1.9	Comm	on causes of envenoming	34
	1.9.1	Snake bite	34
	1.9.2	Scorpion sting	37
	1.9.3	Other sources of envenoming	38
1.10	Traum	a and injuries	38
	1.10.1	Primary survey or initial assessment	38
	1.10.2	Secondary survey	39
2. D	IAGNOS	TIC APPROACHES TO THE SICK CHILD	41
2.1	Relatio	onship to the IMCI approach and stages of hospital care	41
2.2	Taking	history	42
2.3	Appro	ach to the sick child and clinical examination	43
2.4	Labora	atory investigations	43
2.5	Differe	ential diagnoses	44
3. P	ROBLEN	NS OF THE NEONATE AND YOUNG INFANT	45
3.1	Essent	tial newborn care at delivery	46
3.2	Neona	tal resuscitation	46
	3.2.1	Post resuscitation care	50
	3.2.2	Cessation of resuscitation	50
3.3	Routin	e care for all newborns after delivery	50
3.4	Prever	ntion of neonatal infections	51

3.5	Management of the infant with hypoxic ischaemic encephalopathy	/ 51
3.6	Danger signs in newborns and young infants	52
3.7	Convulsions or fits	53
3.8	Serious bacterial infection	54
3.9	Meningitis	55
3.10	Supportive care for sick neonates	56
	3.10.1 Thermal environment	56
	3.10.2 Fluid management	57
	3.10.3 Oxygen therapy	58
	3.10.4 High fever	58
3.11	Preterm and low-birth-weight infants	58
	3.11.1 Infants with a birth weight of 2.0–2.5 kg (35–36 weeks' gestation)	58
	3.11.2 Infants with a birth weight < 2.0 kg (< 35 weeks' gestation)	59
	3.11.3 Common problems of low-birth-weight infants	61
	3.11.4 Discharge and follow-up of low-birth-weight infants	63
3.12	Other common neonatal problems	64
	3.12.1 Jaundice	64
	3.12.2 Conjunctivitis	66
	3.12.3 Congential malformations	67
3.13	Infants of mothers with infectious diseases	67
	3.13.1 Congenital syphilis	67
	3.13.2 Infants of mothers with tuberculosis	68
	3.13.3 Infants of mothers with HIV infection	68
3.14	Doses of common drugs for neonates and low-birth-weight infants	69
4. C	OUGH OR DIFFICULTY IN BREATHING	75
4.1	Child presenting with cough	76
4.2	Pneumonia	80
	4.2.1 Severe pneumonia	80
	4.2.2 Pneumonia	86
4.3	Complications of pneumonia	88
	4.3.1 Pleural effusion and empyema	88

## HOSPITAL CARE FOR CHILDREN

	4.3.2	Lung abscess	89
	4.3.3	Pneumothorax	90
4.4	Cough	n or cold	90
4.5	Condi	tions presenting with wheeze	91
	4.5.1	Bronchiolitis	94
	4.5.2	Asthma	96
	4.5.3	Wheeze with cough or cold	101
4.6	Conditions presenting with stridor		102
	4.6.1	Viral croup	102
	4.6.2	Diphtheria	105
	4.6.3	Epiglottitis	107
	4.6.4	Anaphylaxis	108
4.7	Conditions presenting with chronic cough		109
	4.7.1	Pertussis	111
	4.7.2	Tuberculosis	115
	4.7.3	Foreign body inhalation	119
4.8	Heart	failure	120
4.9	Rheur	matic heart disease	122
5. E	DIARRHO	DEA	125
5.1	Child	presenting with diarrhoea	126
5.2	Acute	diarrhoea	127
	5.2.1	Severe dehydration	129
	5.2.2	Some dehydration	132
	5.2.3	No dehydration	134
5.3	Persistent diarrhoea		137
	5.3.1	Severe persistent diarrhoea	137
	5.3.2	Persistent diarrhoea (non-severe)	142
5.4	Dyser	ntery	143
6. F	EVER		149
6.1	Child	presenting with fever	150
	6.1.1	Fever lasting 7 days or less	150

# 预览已结束, 完整报台