

The Merchant Shipping (Ships Medical Stores) Directive 2005

Directive 01-2005

The Director of the Department of Marine Services and Merchant Shipping, in exercise of the powers conferred by Section 7, subsection (5) of The Merchant Shipping Act of 2006 (as amended), and of all other powers enabling him in that behalf, makes the following Directive:

1. Citation and commencement

- (1). This Directive may be cited as the Merchant Shipping (Ship's Medical Stores) Directive and shall come into force on 01 July 2005.
- 2. Interpretation, In this Directive;

"ADOMS" means the Antigua and Barbuda Department of Marine Services and Merchant Shipping;

"Antidotes" means a substance used to prevent or treat a harmful effect or effects, direct or indirect, of one or more dangerous substances;

"Antigua and Barbuda ship" means a ship which is registered or licensed under the Antigua and Barbuda Merchant Shipping Act 2006 (as amended);

"Company" means the owner of a ship or any other organization or person such as the manager, or the bareboat charterer, who has assumed the responsibility for the operation of the ship from the ship owner and who, on assuming such responsibility, has agreed to take over all duties and responsibilities imposed on the company by these regulations;

"Dangerous goods" are those goods referred to in the IMDG Code, as defined in regulation VII/1.1 of SOLAS;

"International voyages" means voyages worldwide;

"International coastal voyages" means voyages during which the ship is never more than 50 miles off shore;

"Master" includes every person having command or charge of any ship other than a pilot;

"Medical stores" includes medical supplies such as medicines, medical equipment and antidotes;

"Near coastal voyages" means voyages from any port or place in Antigua and Barbuda to any other port or place in Antigua and Barbuda during which the ship is never more than 30 miles from a safe haven in Antigua and Barbuda;

"Restricted international voyages" means voyages during which the ship is never more than 200 nautical miles off shore;

"SOLAS" means the International Convention for the Safety of Life at Sea.

3. Application

- (1). This Directive applies to all Antigua and Barbuda ships with the exception of:
 - (a). Ships owned or operated by the Government of Antigua and Barbuda;
 - (b). Pleasure yachts not engaged in trade;
 - (c). Ships not propelled by mechanical means;
 - (d). Fishing vessels;
 - (e). Tugs operating in harbour areas.

4. Regulations,

- (1). This Directive sets out the minimum requirements of ADOMS for medical stores on board Antigua and Barbuda ships.
- (2). All medical stores kept on board Antigua and Barbuda ships in accordance with this Directive shall conform to the standards and requirements of:
 - (a). The World Health Organization (WHO) "International Medical Guide for Ships" (3rd Edition), or
 - (b). The Maritime and Coastguard Agency (MCA) Merchant Shipping Notice (MSN) 1768 (M+F) and MSN 1768 (M+F) (Corrigendum) deriving from EC Directive 92/29/EEC.
- (3). In diversion to the categories of vessels defined by the a.m. MSN publications, the following categories of vessels and the consequent requirements for medical stores shall apply to Antigua and Barbuda ships:
 - (a). Category A: Antigua and Barbuda ships engaged on international voyages,
 - (b). Category B: Antigua and Barbuda ships engaged on restricted international voyages,
 - (c). Category C: Antigua and Barbuda ships engaged on international coastal voyages or near coastal voyages.
- (4). Antigua and Barbuda ships always shall comply with one of the most recent versions of the documents mentioned under 4(2) also taking into consideration the guidance given in annexes to these documents and any amendments, if applicable.
- (5). The requirements for medical stores are set out in the schedules attached to the publications referred to in 4(2). On board vessels for which the medical stores are kept conforming to the standards and requirements of The World Health Organization (WHO) "International Medical Guide for Ships", 3rd Edition, the

quantities for medicine shall be derived from the Interim Advice annexed to this Directive.

- (6). Companies may, on advice of a qualified medical practitioner or pharmacist determine whether any additional or different quantities in medical stores are required, taking into account i.e. type of an intended voyage, ports of call, type of cargo, number of crew, duration of voyage and type of work to be carried out during the voyage.
- (7). Every Antigua and Barbuda ship to which this Directive applies shall carry for each of its lifeboats and life-rafts a watertight medicine chest containing at least the medical supplies specified in the schedules to the documents referred to in 4(2).
- 5. Medicines for ships carrying dangerous goods.
 - (1). Ships carrying dangerous goods or their residues should comply with the IMDG Code and the guidance in the IMO/WHO/ILO Medical First Aid Guide for use in accidents involving dangerous goods (MFAG) 1994 and ay subsequent amendments or, if applicable, the guidance in Annex 4 to MSN 1768 (M+F).
- 6. Responsibilities.
 - (1). The general responsibility for compliance with the requirement of this Directive shall remain with the company.
 - (2). Each company shall ensure that:
 - (a). medical stores are accompanied by one or more guides to their use, including instructions for use of at least the antidotes required;
 - (b). the master or any person authorized by the master to dispense and use drugs, medicines etc. on patients on board has undergone approved training and holding the appropriate certificate as a Designated Medical Care Provider, issued by a foreign national Administration of the seafarers' origin;
 - (3). The master is responsible to ensure that any necessary medical attention on board a ship is given either by him or under his supervision by a competent and certified person appointed by him for that purpose.
 - (4). The master is also responsible for the maintenance of medical stores on board a vessel, ensuring that they are kept in good condition.
 - (5). Medical advice from ashore should be sought as necessary.
- 7. Inspections.
 - (1). Medical stores shall be subject to inspection by a qualified medical practitioner or pharmacist who also issues a certificate of inspection, at least every twelve (12) months to ensure that:
 - (a). Medical stores meet the requirements of this Directive;
 - (b). Medical supplies are stored correctly;

- (c). Medical supplies are kept according to their periods of validity;
- (d). Acts of dispensing medical supplies have been recorded.
- (2). Provided where in any case the inspection under 7(1) is impracticable, ADOMS may extend this period to seventeen (17) months.
- (3). Inspections of medical supplies stored on life-rafts shall be performed in the course of their annual inspection, as required by regulation III/20.8. of SOLAS.
- (4). Inspections according to 7(1) shall be documented by a qualified medical practitioner or pharmacist by issuing a certificate of inspection.

ANNEX

Guidance to the International Medical Guide for Ships 3rd edition:

Interim advice regarding the best use of the medical chest for ocean-going merchant vessels without a doctor onboard

Joint Statement of WHO Collaborating Centres for the Health of Seafarers and the International Maritime Health Association - 2009 Version

Background

Diagnosis and treatment of the sick and injured onboard is a challenge to seafaring. This has always been true despite recent developments in telemedicine. Where no doctor is on board -as it is the case in most merchant ships- a non-medical person holds the responsibility for medical care. He has to rely on his medical training, written information, and -if appropriate- shore based radiomedical or telemedical advice. This information will help him to make best use of the medical chest and equipment on board. Appropriateness of the information available, adequacy, uniformity and quality of the medical chest and equipment is a key to the safeguard of the seafarer's health at his work-place.

The WHO International Medical Guide for Ships (IMGS) was first published in 1967. The IMGS has widely been used in the maritime world. The second edition1, written in 1988 was recently replaced by the third edition2 in 2007. Immediately after the publication of the current IMGS a discussion on the best use of the tool and on further needs developed among experts from the WHO Collaborating Centres3 for the Health of Seafarers and the International Maritime Health Association4.

During a workshop of the INTERNATIONAL MARITIME HEALTH ASSOCIATION (IMHA) in Athens, Greece, November 14th-15th 2008 the concerns were summarized as follows: "Flag states that do not have national requirements for the contents of the medical chest have in the past relied on a list that has been provided by WHO in the International Medical Guide for Ships (2nd Edition, 1988). This list provided information on the quantities to be carried on board. It is not a formal international instrument but the Guide is noted as a source of information in the non-statutory part of the relevant ILO Convention. Port State Control Inspectors use the IMGS list as the minimum requirement for medical supplies. The medication list is now very out of date and when WHO recently published a new edition of the Guide it included updated lists of recommended medications that were derived from the WHO Essential Medications List and of medical equipment taken from The Inter-agency Emergency Health Kit 2006. While this was a rational approach for the WHO to ensure that well validated treatments were available it did not take into account the need for remedies for minor ailments at sea – the sort that can impair ability to work without being dangerous, nor did it cover all the medical equipment that was needed in maritime situations. More significantly WHO did not consider that they could specify quantities of medications to be carried as there was a lack of information on use and effectiveness of medications at sea. In the absence of such data WHO considered that quantities should be related to voyage pattern and to political / managerial decisions rather than being stated by WHO. This lack of specification is not causing immediate problems where the flag state of the ship has its own national regulations or guidelines

but it has led to great difficulties for maritime pharmacists called on to check and restock medical chests on ships from countries, including many of those with major open ship registries, that have no national lists. Pharmacists cannot continue to work to the outdated list and quantities in the old International Medical Guide, while they have no benchmarks for quantities required from the new one, nor the authority to make consistent decisions on the quantities to supply".

WHO Collaborating Centres for the Health of Seafarers and IMHA agreed that there are a number of topics where improvements are needed. The aim is to produce a knowledge-base to specify the contents of medical chests and the medical textbook. While this is a long-term approach requiring research efforts it was also agreed upon the need to produce an interim guidance on the medical chest to the current users of the IMGS even in the absence of further evidence. Symptom-oriented algorithms for diagnosis and treatment as a supplement to the current IMGS 3rd edition will follow soon.

In this paper the authors, who are experts from the International Medical Health Association and the WHO Collaborating Centres for the Health of Seafarers publish recommendations to the medical chest as given in the IMGS 3rd edition. This is an interim advice to be available to ship-owners, - masters and maritime authorities and pharmacists for use on merchant ships not carrying a medical doctor of those flags that do not follow the EU Directive 92/295 and do not have national requirements. The readers and users of the interim advice need to be aware that the expert group does not judge on the content of the current list as published by the World Health Organization in the 3rd edition of the IMGS.

The aim of the Interim Advice as given below is;

- to provide an aid for decision making for quantities required for seagoing and coastal vessels,
- to add items named in the textbook of the IMGS 3rd edition but missing in the list of medicines or equipment,
- to add page numbers from the medical textbook to the list of medicines for easier use.

The Interim Advice as given below is not;

- mandatory for ship-owners, suppliers or port health authorities. It is to the flag states
 responsibility to specify national requirements in a legally binding way.
- meant to substitute a qualified medical consulting. Owners and operators carry the final responsibility for the content of the medical chests on board of the ship.

Owners and operators will need to seek qualified medical consulting for the content and quantities carried on board.

How to use the proposed list of recommended medicines and equipment of the International Medical Guide for Ships 3rd edition, pages 430-461

- The Interim Advice is only to be used in conjunction with the International Medical Guide for Ships 3rd edition2 as published by WHO in 2007.
 - All items suggested from WHO in the original list on pages 430 to 461 are included.

- Any additions to the original list (items and comments) are made visible by the use of italic letters. Reference pages from the medical textbook to the list of items which justify the additions are given.
- Running numbers have been given to the list of medicines and equipment including added items.
- Drugs, forms, books and equipment which are mentioned in the textbook but have not been displayed in the list of medicines are added to the list in alphabetical order.
- Reference pages to the medical textbook are given for all items to ease the use of the list.
- If an item may be omitted under special circumstances this is mentioned in italic letters in the last column.
- Suggestions for quantities have been included. Quantities are calculated on the basis of the following assumptions: Ocean-going merchant vessels without a doctor onboard. Maximum duration of travel of 3 weeks. Crew sizes of 10, 20, 30 or 40 persons,
- For merchant vessels without a doctor onboard engaged in coastal trade or going to nearby foreign ports, and not more than 24 hours away from a port of call, for fishing boats and private craft: Quantities may be adapted or omitted on the advice of a qualified medical practitioner or pharmacist with regards to the destination, medical facilities ashore, number of crew members and cargo.
- For dosage, contra-indications, unwanted effects, radiomedical advice and further remarks the user needs to refer to original text of the IMGS 3rd edition.
- Recommended quantities will not always reflect the standard packs in a given country. In this case the recommendation is for the nearest available dispensing sales pack above the minimum required quantity.
- Owners and operators may substitute exact equivalents on the advice of a qualified medical practitioner or pharmacist, provided they are satisfied that an equivalent level of treatment is assured.
- Specific items will not be available in certain countries, for example Chlorpyrifos was banned in the European Communion (Directive 98/8 eec of March 16th 1998). The pharmacist will have to supply an analogous drug in corresponding quantities. The same is true for items which have transport restrictions and cannot be delivered locally.
- For ships carrying dangerous goods according to the IMDG Code6: Medicines and equipment already available in the IMGS list may be counted toward the Medical First Aid Guide (MFAG) numerical requirement, if appropriate.

Ocean-going merchant vessels without a doctor onboard.

Maximum duration of travel of 3 weeks.

Crew sizes of 10, 20, 30 or 40 persons.

Only to be used in conjunction with the International Medical Guide for Ships 3rd edition

Running numbers are given to the alphabetical list of medicines and equipment. Items which have been added by authors appear in alphabetical order and are written in italic letters. Quantities for the recommended minimum number of items for oceangoing vessels are based on an estimated 3 weeks inventory for a crew complement of 10 to 40 persons.

Comments in italic letters refer to added items which are mentioned in the textbook but have not been displayed in the list of medicines. Remarks on items which may be omitted under special circumstance are given. For dosage, contraindications, doctor consulting, unwanted effects and remarks refer to IMGS 3 rd ed. p. 430-461 and textbook

Item	Recommended Item	per	per	Per	per	Indications (on board ships)
No.	Dosage form, Strength	10	20	30	40	Added comments
1	Acetylsalicylic acid 300mg tablet	100	200	300	400	- high dose (600-900mg): to reduce pain, fever, inflammation - low dose (100-150mg) to inhibit formation of blood clots in angina pectoris, myocardial infarction, stroke See pages 17-25 and 113-116, 133-135, 137, 138
2	Aciclovir 400mg tbl.	35	35	70	70	- treatment of primary or recurrent herpes simplex virus infection; - may be useful for severe varicella and herpes zoster infection (doctor should be consulted) See pages 125-126, 198-199, 256

_	Advanation 1:1000	10	10	10	10	As refer bland amount in
3	Adrenaline 1:1000	10	10	10	10	- to raise blood pressure in
	ampoule 1ml = 1 mg					anaphylaxis
						- to dilate airways in severe
						asthma or
						anaphylaxis
						See pages 145-147
4	Amethocaine (tetracaine	20	20	20	20	for eye examination and
	hydrochloride) 0.5% eye drops,					procedures
	single-use vial 1ml					See pages 33-34
5	Amoxicillin + clavulanate tablets	15	30	30	45	- to treat infections
	875mg/125mg					responsive to this
	073116/123116					antibiotic
						See pages 7-776, 140-144,
						181-183, 204,
						216-217, 221-223, 262 and
						288
6	Antimalarial prophylaxis		•	epende		Prophylaxis and treatment of
	(prevention) tablets	of cr	ew nui	mber, ı	risk	Malaria as
		of ac	quirin	g mala	ria	recommended by
		in a g	given p	ort an	d	www.who.int/malaria/public
		_		dwell		ations.html
		risk a	area.			or
				al advi	ice	www.cdc.gov/travel/regional
		Jeen	meane	a. aa.		malaria/index.html
						See pages 265-269
7	Artemether	5	5	5	5	Treatment of severe malaria.
'])	3	ر	
	Ampoule 1 ml = (80mg)					See pages
						265-269
						required only for voyages to
						areas where
						malaria transmission is a risk
8	Artemether +	24	24	48	48	Treatment of malaria. See
	Lumefantrine					pages 265-269
	tablets 20mg + 120mg					required only for voyages to
						areas where
						malaria transmission is a risk
9	Atropine	10	10	10	10	- to treat slow heart rate in
	ampoule 1.2 mg/ml	10	10	10	10	myocardial
	ampoule 1.2 mg/m					infarction
						- to treat organophosphate
						insecticide
						poisoning
						See pages 96, 136
					<u> </u>	
10	Azithromycin	3	3	6	6	- to treat infections
	tablet 500mg					responsive to this
						antibiotics
						See pages 141-144, 195-207,
						260, 274, 277,
		1				281

11	Ceftriaxone ampoule 1g powder for injection (dissolve in water for injection)	15	30	45	60	- to treat infections responsive to this antibiotic See pages 16, 141-144, 153, 160-161, 172, 175, 187, 194, 195-207, 269-
12	Cetirizine tablet 10mg	30	30	30	30	- to treat allergy symptoms in hay fever, hives, allergic dermatitis, etc. See page 145
13	Charcoal, activated 50g in 300 ml purified water	2	2	2	2	to absorb ingested poisons. See pages 93- 96
14	Ciprofloxacin tablet 250mg	40	40	40	40	- to treat infections responsive to this antibiotic See pages 77, 156- 157, 181-183, 195-207, 221-223, 262 and 277
15	Cloves, oil of 10 ml	1	1	1	1	Toothache, see pages 287- 289
16	Dexamethasone ampoule 4mg/ml	5	5	5	5	 to treat life-threatening and severe asthma to treat anaphylaxis to treat severe allergic reactions
17	Diazepam tablets 5mg	50	50	100	100	to treat alcohol withdrawal. See pages 235-239.
18	Docusate with Senna tablet 50mg +8mg	20	20	40	40	- to avoid straining in patients with anal fissure and haemorrhoids - to prevent constipation caused by opioid use See pages 168-169
19	Doxycycline tablet 100mg	20	20	40	40	as recommended in IMGS3 for the specific infection See pages 195-207, 209-210, 221-223, 271- 272.
20	Ethanol 70%, hand cleanser gel 250ml	4	4	6	8	an alternative to hand- washing when hands are not obviously soiled
21	Ethanol 70%, liquid Liquid 500 ml	1	1	2	2	to disinfect instruments and surfaces

22	Fluorescein 1%, strips	20	20	20	20	to detect damage to cornea:
	or single use vials 1 ml		_0			damaged
						area stains yellow/green See
						pages 33-34
23	Frusemide	5	5	5	5	to treat severe fluid
	Ampoule 4ml = 40mg					retention in lungs
						(pulmonary oedema) due to
						cardiac failure, see pages 15,
						136
24	Glucagon, ready to use	1	1	1	1	to treat low blood sugar
	ampoule 1mg amp					(hypoglycaemia)
						due to insulin when oral
						intake is impossible and
						intravenous glucose cannot
						be given.
						See pages 123, 125.
						It is recommended to carry a
						glucose measuring
						instrument on board.
25	Haloperidol	5	5	10	10	- to treat psychotic
	Ampoule 1 ml= 5mg					hallucinations and delusions
						- to treat severe agitation
						and aggressiveness
		1	<u> </u>	<u> </u>		See pages 126-132.
26	Hydrocortisone 1% cream	2	4	6	8	to treat allergy and some
	Cream (20 -30 gramm)					other inflammatory skin
						conditions. See pages
27	lhunrafan	F.O.	100	150	200	169, 212-213, 219-221
27	Ibuprofen	50	100	150	200	-to treat inflammation - to reduce mild-to-moderate
	coated tablet 400 mg					pain, especially if associated
						with inflammation
						See pages 17-25.
28	Insect repellent lotions for skin.	One	l vial pe	r nerse	n in	Consider diseases
20	Vials for personal use		viai pe s of risl	•	/11 111	transmitted by mosquitoes
	DEET 20-35% formulation		iring a	-	6	as Dengue Fever p 258-259,
	or	_	mitted		_	Malaria p. 265-269, Yellow
	Picaridin or p-menthane-3,8-diol		quitoes		iven	fever p 284
		port	74,1000	u g		See also pages 363-364 for
						mosquito control in general
29	Isosorbide dinitrate	20	20	40	40	- to treat angina pectoris
	tablet 5mg sublingual.					(chest pain)
						- to treat myocardial
						infarction
30	Lignocaine 1% (without	5	5	10	10	for local anaesthesia when
	adrenaline)					suturing wounds or
	Ampoule 5ml					performing minor surgery
						See pages 71-74, 216-219

31	Loperamide	30	60	90	120	to treat symptoms of
	tablet 2mg					diarrhoea
32	Mebendazole	10	10	20	20	See pages 156-157 - to treat intestinal worm
32	tablet 100mg	10	10	20	20	infections not effective for
	tubiet 100mg					tapeworm infection or
						hydatid disease See pages
						281-284
33	Metoprolol	30	60	60	60	- to treat hypertension (high
	tablet 100mg					blood pressure) - to treat artrial fibrillation
						(irregular or rapid heart rate)
						- to treat angina pectoris
						(chest pain)
						- to prevent migraine See
						pages 133-137
34	Metronidazole	30	30	30	30	to treat infections responsive
	tablet 500mg					to antibiotics
						See pages 160-163, 172, 203-
35	Miconazole 2%	2	4	6	8	204 to treat fungal skin infections
33	cream		4	0	٥	See pages 203-204, 214
	Cicam					If women on board, supply
						also Miconazole vaginal
						cream.
36	Midazolam	5	5	10	10	to terminate epileptic fits.
	ampoule 1ml (= 5mg)					See pages 121,
27	Missonsotal	1	2	2	2	128-130
37	Misoprostol tablet 200μg	3	3	3	3	to prevent post-partum haemorrhage.
	tablet 200µg					Page 192
						If women on board
38	Morphine (injectable) ampoule 1	10	20	30	40	- to reduce severe pain
	ml = 10mg					- to reduce pain not relieved
						by other analgesics
22						See pages 17-25.
39	Morphine (oral)	1	1	1	1	to reduce severe pain likely
	liquid 1mg/ml 100ml bottle					to last several days in patients able to eat and drink
	or 10 tablets with 10 mg					See pages 17-25
	o. 10 tablets with 10 mg					300 pages 17 23
40	Naloxone	10	10	10	10	to reverse effects of opioids,
	Ampoule 1 ml (=0.4mg)					especially in
						case of overdose See pages
						123, 240
41	Omeprazole	30	30	60	60	- to treat gastro-oesophageal
	tablets 20mg					reflux
						- to treat peptic ulcer disease
						See pages 152, 163-167 and
						173

42	Ondansetron tablet 4mg	10	10	20	20	- to prevent vomiting - to prevent seasickness
	or Scopolamin transdermal patches	5	5	10	10	See page 347. Caution: Scopolamine
	see page 347.					treatment causes
						sedation, see remarks on page 347
43	Oral rehydration salts sachets of powder for reconstitution	10	10	20	20	to prevent or treat dehydration, especially due to diarrhoea, see pages 257-258 and 347
44	Oxymetazoline 0.5% (or equivalent) drops or spray	4	5	6	7	 to treat nasal obstruction due to allergies or viral infection to improve sinus drainage in sinusitis
45	Paracetamol Tablets 500mg	100	200	300	400	to reduce pain and fever (but not inflammation) See pages 17-25
46	Permethrin 1% lotion 250 ml	1	1	2	2	to eliminate hair, pubic, and body lice See pages 219-221
47	Permethrin 5% Lotion, vial of 250 g	1	1	2	2	to treat scabies See pages 219-221
48	Povidone iodine ointment 10% 25 to 50 g	2	3	4	5	to disinfect skin and wounds See pages 67- 77, 215-219
49	Povidone iodine solution 10% 30 to 120ml	2	3	4	5	to disinfect skin and wounds See pages 67- 77, 215-219
50	Prednisone tablet 25mg	30	30	60	60	- to treat severe asthma - to treat other inflammatory conditions (on medical advice) See pages 125-126, 145-147
51	Petroleum jelly 50 g to 100 g (vaseline)*	2	3	4	5	-to treat chapped skin. See page 212, 261 for lubricating rectal thermometer
52	Salbutamol aerosol inhaler 0.1mg/dose	1	2	3	4	 to treat asthma to treat chronic bronchitis to treat emphysema to treat other lung diseases See pages 145-147
52(A)	Volume spacer for salbutamol inhaler	1	1	1	1	To make inhaling salbutamol more effective See page 146

53	Sodium chloride 0.9%	5	5	5	5	for fluid replacement
33	infusion plastic-bottle 1		,			Can also be used for sterile
	litre					eye irrigation,
	or 2x 500ml plastic bottle					see page 38
54	Sodium chloride 0.9%	2	2	2	2	For sterile eye bathing and
	infusion plastic-bottle 10					application of wet
	ml					compresses, see page 38
55	Tetracycline 1% ointment	2	4	6	8	to treat minor eye infections;
	Eye – ointment 5 g					to prevent infections
						following damage to the
						cornea.
						See pages 33-34, 40-42, 261.
56	Tetanus Immunoglobulin	1	1	1	1	Part of wound care if state of
	ampoule. (keep at 2-8°C)					vaccination is unknown, see
						page 68
57	Tetanus toxoid	1	1	1	1	Part of wound care if state of
	vaccination ampoule					vaccination is unknown, see
	(keep at 2-8°C)					page 68
58	Tramadol	50	50	50	50	Against moderate pain; See
	tablets 50 mg .					pages 22-23
						In severe pain use morphine;
						See pages
						17-25
59	Vitamin K	2	2	2	2	to reverse excessive or
	(Phytomenadione)					unwanted effects
	Ampoule 1 ml= 10mg					of warfarin or related drugs.
						See pages 96, 173
60	Water for injection	20	30	40	50	reconstitution of injectable
	Ampoules 5ml					drugs provided as powders
						arago promaca ao pomeno
61	Zidovudine plus	Carry	, at lea	st 60		Prophylaxis against HIV
	Lamivudine tablets,	table	t. Qua	lified		infections after
	300mg+150mg	medi	ical adv	vice ne	eded	needle-stick injury. One
	Consider adding further	for				tablet daily twice daily for
	or using other antiviral	gene	ral risk	(four weeks. See page 252
	substance following		ssment			In case of exposure
	current guidelines		only i	•		immediately seek
	<u> </u>		of infec			radio-medical advice for risk
	http://www.who.int/hiv/pub/prop		sure o			assessment in
	hylaxis/pep_guidelines/en/index.ht		furthe			individual person.
	ml		irals fo		g	
		_	elines v			
	www.liv.ac.uk/hiv/guidelines.htm		erate t	_		
	http://www.cdc.gov/mmwr/previe		nfectio		se	
62	w/mmwrhtml/rr5409a1.htm Zinc oxide 20%		posure 5			protection of irritated alia
62		5)	5	5	protection of irritated skin
	paste or ointment 50-100 g			<u> </u>		

EQUIF	PMENT p. 451 –461					
Item	Recommended item	Per	Per	Per	Per	Category
No.		10	20	30	40	Added comments
1	Resuscitation Equipment		I	1		
1.1	Portable oxygen set,	1	1	1	1	appliance for the
	complete containing:					administration of oxygen
						See pages 4-5
1.1a	1 oxygen cylinder,	1	1	1	1	Ready to use. See pages
	2l/200bar					4-5
1.1b	1 spare oxygen cylinder,	1	1	1	1	See pages 4-5. If no
	2I/200bar					additional equipment
						from the MFAG on board
						consider to increase
						amount of oxygen to 4 X
						101
1.1c	Pressure regulating unit and flow meter	1	1	1	1	See pages 4-5
	with tubes such that ship's					
	industrial oxygen can also be used.					
1.1d	3 disposable face masks	1	2	3	4	See pages 4-5
	of choice: including simple face mask					
	and non-rebreathing mask					
1.2a	Guedel airway (Mayotube):	1	1	1	1	Oropharyngeal airway,
	size medium					see pages 4-5, 315
1.2b	Guedel airway (Mayotube):	1	1	1	1	Oropharyngeal airway,
	size large					see pages 4-5, 315
1.3a	Manual aspirator to clear	1	1	1	1	Mechanical aspirator, see
	upper airways		_	_	_	pages 4-5
1.3b	Catheters for aspirator,	2	2	2	2	Mechanical aspirator,
						different sizes; see pages
4.4			4	4	4	4-5
1.4	Ambubag or equivalent; supplied with	1	1	1	1	Bag and mask resuscitator
	small, medium, and large masks					including oxygen reservoir
						bag and oxygen tubing,
1.5	Prook Airway Lifeway nocket face week	1	1	1	1	see pages 4-5 Cannula for mouth-to-
1.5	Brook Airway, Lifeway, pocket face mask	1	1	1	1	
	or equivalent					mouth resuscitation,
2	DRESSING MATERIAL AND SUTURING EQU	IDNAEN	IT.			see pages 4-5
2.1	Assorted wound-plaster or plaster strips,	200	200	200	200	adhesive dressings
2.1	water resistant – slim and broad	200	200	200	200	auriesive uressings
2.2a	Sterile gauze compresses,	50	50	100	100	Sterile gauze compresses
Z.2a	5cm x 5cm, sterile	50	30	100	100	Sterne Bauze compresses
2.2b	Sterile gauze compresses,	50	50	100	100	Sterile gauze compresses
2.20	10 cm x 10cm			100	100	Sterne Baaze compresses
2.3	Gauze roll, 5cm and 60 or	1	1	1	1	Gauze roll 60 cm / 90 cm
5	90 cm x 100 m, non-sterile	~	-	-	-	may be substituted by
	22 Sin X 200 m, non sterne					gauze roll of smaller size
2.4	Non-adherent gauze dressing, square	10	20	30	40	Gauze dressing with non-
	10cm				.~	adherent surface
2.5	Paraffin gauze dressing,	40	40	40	40	Vaseline gauze
	10 x 10 cm, sterile					0
l	· -			1	1	1

2.6	Elastic fixation bandage,	3	6	9	12	Bandage
2.0	4 m x 6 cm				12	Barrauge
2.7a	First-aid absorbent gauze-covered cotton	5	5	10	10	Sterile compression
2.74	pad sewn onto a cotton					bandages.
	bandage (ambulance dressing) small					barraages.
2.7b	First-aid absorbent gauze-covered cotton	5	5	10	10	Sterile compression
2.70	pad sewn onto a cotton			10	10	bandages.
	bandage (ambulance dressing) medium					bandages.
2.7c	First-aid absorbent gauze-covered cotton	5	5	10	10	Sterile compression
2.70	pad sewn onto a cotton			10	10	bandages.
	bandage (ambulance dressing) large					barrauges.
2.8a	Tubular gauze bandage	1	1	1	1	Tubular gauze for finger
2.00	for finger bandage, 5m	_	_	_	_	bandage
	Tor finger bandage, 5m					See pages 43-58
2.8b	Applicator for finger	1	1	1	1	See pages 43-58
2.00	bandage	1	_	_	_	See pages 43-36
2.9	Adhesive elastic bandage, 4m x 6 cm	10	10	10	10	Adhesive elastic bandage
2.9	Triangular sling	5	5	5	5	Triangular sling. See pages
2.10				Э	Э	43-58 and 77
2.11	Sterile sheets for burn	2	2	4	4	Sterile sheet for burn
	patients					victims. Different sizes
						See pages 79-83
2.12	Honey for dressing burns	1	1	2	2	Only if honey for medical
	1kg, (only purified 1000 g)					purposes available
						Otherwise use a hydrogel-
						burn-kit.
						See pages 79-83
2.13	Adhesive tape, waterproof, skin-friendly,	3	3	6	6	Adhesive sutures or zinc
	5 x 1.25 cm					oxide bandages
2.14	Q-tips (wooden)	100	100	100	100	Q-tips
2.15	Safety pins (stainless steel), 12 pieces	1	1	2	2	safety pins
2.16	Butterfly sutures, Steristrip® or	50	50	50	50	Butterfly sutures. See
	Leukostrip®, sterile					pages 69-74
2.17	2-octyl cyanoacrylate liquid, 0.5ml	1	1	1	1	Skin adhesive for closing
						small wounds. See pages
						69-74.
2.18	Sutures, absorbable with curved non-	3	3	6	6	Suturing equipment. See
a	traumatic needles, 1 – O,					pages 71-74. Replace with
						non-absorbable sutures
						for
						easier use See page 71
2.18	Sutures, absorbable with curved non-	3	3	6	6	Suturing equipment. See
b	traumatic needles, 3 – O,					pages 71-74. Replace with
						non-absorbable sutures
						for easier use See page 71
2.18	Sutures, absorbable with	3	3	6	6	Suturing equipment. See
С	curved non-traumatic					pages 71-74. Replace with
	needles,					non-absorbable sutures
	4 - 0 or 5 - 0					for easier use See page 71
		·				

2.40	B: 11 : .:	400	400	400	400	
2.19	Disposable examination	100	100	100	100	Gloves
a 2.40	gloves, size M	100	100	100	100	Clavia
2.19	Disposable examination	100	100	100	100	Gloves
b	gloves, size L	2	4	_		Claves (starila)
2.19	Surgical gloves size 6.5, sterile in pairs	3	4	5	6	Gloves (sterile)
C				_		
2.19	Surgical gloves size 7.5, sterile in pairs	3	4	5	6	Gloves (sterile)
D	0			_		
2.19	Surgical gloves size 8.5, sterile in pairs	3	4	5	6	Gloves (sterile)
е						
2.20	Eye pads	1	2	3	4	See pages 36, 38.
3	INSTRUMENTS	I		T		
3.1	Scalpel, sterile,	10	101	10	10	Disposable scalpels See
	disposable					pages 71-74, 216- 219.
3.2	Instrument box (stainless	1	1	1	1	Stainless-steel instrument
	steel)					box.
3.3	Operating scissors, straight (stainless	1	1	1	1	Scissors
	steel)					
3.4	Bandage scissors (stainless steel)	1	1	1	1	Scissors
3.5	Splinter forceps, pointed	1	1	1	1	Forceps
	(stainless steel)					
3.6	Teeth tissue forceps (stainless steel)	1	1	1	1	Forceps. See pages 71-74,
						216-219.
3.7	Needle holder, Mayo-Hegar 180mm,	1	1	1	1	Needle holder. See pages
	straight					71-74.
3.8	Haemostatic clamp, Halstead mosquito,	2	2	2	2	Haemostatic clamps
	125mm, stainless steel					μ.
3.9	Razor, disposable	5	5	5	5	Disposable razors
4	EXAMINATION AND MONITORING EQUIPM	1ENT				
4.1	Tongue depressors, disposable	100	100	100	100	Disposable tongue
	Tongue depressors, disposable	100	100	100	100	depressors
						аср. созото
4.2	Reactive strips for urine analysis:	50	50	100	100	Reactive strips for urine
7.2	blood/glucose/protein/nitrite/leukocytes	30	30	100	100	analysis, see pages
	biood/gideose/protein/intrice/ledkocytes					311-312, 324.
						311-312, 324.
4.3	Microscope slides	12	12	12	12	Microscope slides, See
4.5	Which oscope shaes	12	12	12	12	pages 265-269
						pages 265-269
1.1	Stathassana	1	1	1	1	Stathassana
4.4	Stethoscope	1	1	1	1	Stethoscope
4 -	Colorana and an arrate of Haland Lands	1	1	1	1	Anaraid
4.5	Sphygmomanometer (blood pressure	1	1	1	1	Aneroid
	set), preferably automatic					sphygmomanometer, see
4.6	Charles de la Company	_	_	_	2	pages 305-307
4.6a	Standard thermometer, digital if possible	2	2	3	3	Standard thermometer,
						see pages 302-304
4.6b	Rectal thermometer, digital if possible	1	1	1	1	Rectal thermometer, see
						pages 302-304

		Ι.		Ι.		T
4.7	Thermometer 32°-34°C, digital if possible	1	1	1	1	Hypothermic
						thermometer, preferable
						range 26°C to 42°C to
						differentiate between
						severe-moderate-mild
						hypothermia; see pages
						343-344.
4.8	Penlight + blue cover	1	1	1	1	Penlight (blue light) to
						detect damage to cornea.
					_	See pages 33-34
4.9	Waterproof indelible marker	1	1	1	1	see page 29.
4.10	Magnifying glass (a x 8 loupe)	1	1	1	1	See pages 33-34.
	IS AND BOOKS	T		T		
4.11	Temperature cards / charts	10	10	10	10	Use as master copy from
						page 302
4.12	Cards for telemedical advice	10	10	10	10	Use as master copy.
						Should be filled in before
						calling radiomedical
1.12	Manden Landon I	4	4	1	4	advice
4.13	Medical logbook	1	1	1	1	See p. 455
4.14 4.15	Controlled drug register International Medical	1	1	1	1	Controlled drug register
4.15	Guide for Ships 3rd	1	1	1	1	Hard-copy
4.16	Forms from Annex A Ship master's	10	10	10	10	Uso as master convisco
	report form	10	10	10	10	Use as master copy (see pages 455 - 461) file in
а						medical log p. 455
4.16	Forms from Annex A Ship's identity and	10	10	10	10	Use as master copy (see
b	navigational status form	10	10	10	10	pages 455 – 461)
4.16	Forms from Annex A Patient health	10	10	10	10	Use as master copy (see
C	status form	10	10	10		pages 455 – 461)
4.16	Forms from Annex A Primary physician's	10	10	10	10	Use as master copy (see
d	report form					pages 455 - 461)
4.17	Vaccination requirements	1	1	1	1	International travel and
	·					Health, current edition
						(WHO)
4.18	Malaria prophylaxis and treatement	1	1	1	1	www.who.int/malaria/pu
						blications.html
						or
						www.cdc.gov/travel/regio
						nalmalaria/index.html
						See Page 266
5	EQUIPMENT FOR INJECTION, INFUSION, A	ND CA	THETE	RIZATI	ON	
5.1	Syringes, Luer connection, 2ml, sterile,	10	20	30	40	Equipment for injection,
	disposable					see pages 324-329
5.2	Syringes, Luer connection, 5ml, sterile,	10	20	30	40	Equipment for injection,
	disposable		<u> </u>		<u> </u>	see pages 324-329
5.3	Syringes, Luer connection, 10 ml, sterile,	10	20	303	40	Equipment for injection,
	disposable					see pages 324-329
5.4	Hypodermic subcutaneous needle,	20	30	40	50	Equipment for
	Luer connection, 16x0.5mm (23 G or 25					subcutaneous injection,
	G), sterile, disposable					see pages 324-329

		1	1	1		
5.5	Hypodermic intramuscular needle	20	30	40	50	Equipment for
	(19G or 21G), Luer connection,					intramuscular injection,
	40x0.8mm, sterile, disposable					see pages 324-329
5.6	Needles, 19G or 21G, blunt, "drawing	20	30	40	50	Equipment for drawing
	up" type					the medicine into the
						syringe, see pages 324-
						329
5.7	Intravenous infusion cannula 16G	5	5	10	10	Equipment for
a	(1.7mm) or 19G, Luer-lock connection,					intravenous fluid infusion,
	sterile, nonrecap type + mandarin	-	_	10	10	see page 326
5.7	Intravenous infusion cannula 22G	5	5	10	10	Equipment for
b	(0.8mm) or 21G, Luer-lock connection, sterile, nonrecap type+mandrin					intravenous fluid infusion, see page 326
5.8	Intravenous giving set, Luer-lock	5	5	10	10	Equipment for
5.0	connection, sterile +3-way valve/			10	10	intravenous infusion, see
	connection					pages 324-329,
5.9	Tourniquet, blood-taking type, to be	1	1	1	1	Equipment for infusion,
	used with intravenous infusion cannula					see pages 324-329
5.10	Penile sheath set with condom catheter,	1	1	1	1	Bladder drainage
a	tube, and bag					equipment, see page
5.40			4			308-309
5.10	Indwelling urine catheter 14 CH	1	1	1	1	Bladder drainage
b						equipment, see pages 319- 321
5.11	Short-term urine catheter with soft-eye	2	2	2	2	Bladder drainage
a.11	straight tip Thieman No. 12, or	-				equipment, see pages
u	equivalent					319-321
5.11	Short-term urine catheter with soft-eye	2	2	2	2	Bladder drainage
b	straight tip Thiemann No 16, or					equipment, see pages
	equivalent					319-321
5.11	Complete sterile urine catheterization	2	2	2	2	Bladder drainage
С	set with lubricant, drapes, cotton swabs,					equipment, see pages
	skin disinfection, forceps, sterile					319-321
5.12	Urine collecting bag and tube	2	2	2	2	Bladder drainage
5.12	orme concerning bug und tube	_	_	_	_	equipment, see pages
						319-321
6	GENERAL MEDICAL AND NURSING EQUIPM	JENT				
6.1	Plastic goggles or full face mask	1	1	1	1	Eye protection
6.2	Disposable plastic apron	10	10	10	10	Plastic apron
6.3	Kidney dish, stainless steel, 825ml	1	1	2	2	Kidney dish
6.4	Towels, plastic backed, absorbent, 600x500mm	10	10	10	10	Plastic backed towels
6.5	Safety box for sharps disposable, 5l	1	1	1	1	Safety box Size of 1-5
				4.5-	4.5	litres may be chosen
6.6	Mask, duckbill type, disposable	50	50	100	100	Mask
6.7	Tape measure, vinyl coated, 1.5m	1	1	1	1	Tape measure
6.8	Draw sheet, plastic 90x180cm	1	1	1	1	Draw sheet
6.9	Bedpan, stainless steel	1	1	1	1	Bedpan,
6.10	Hot-water bag	1	1	1	1	Hot-water bottle

C 11	Illian I male (alestia)	1	1	1	1	I Luin a la attila
6.11	Urinal, male (plastic)	1	1	1	1	Urine bottle
6.12	Cold/Hotpack maxi	1	1	1	1	Ice bag
6.13	Aluminum foil blanket	1	1	1	1	Aluminum foil blanket
6.14	Male condoms	100	200	300	400	Condoms, assorted sizes
6.15	Plastic wash bottle, 250ml	1	1	1	1	Plastic wash bottle
6.16	Bottle, 1l plastic with screw top	1	1	1	1	Plastic bottle
6.17	Stainless steel dressing tray 300x200x30mm	1	1	1	1	Dressing tray
6.18	Bowl, stainless steel, 180ml	1	1	1	1	Bowl
6.19	Jars, plastic, with lids and lables 100ml	10	20	30	40	Specimen jars
6.20 a	Bandages, POP, 5cmx2.7m	6	6	6	6	Plaster-of-Paris bandages, may be omitted if splints are carried
6.20 b	Bandages, POP, 10cmx2.7m	6	6	6	6	Plaster-of-Paris bandages, may be omitted if splints are carried
6.21 a	Stockinet sizes for arm splints 10m roll	1	1	1	1	Stockinet See pages 43-58
6.21 b	Stockinet sizes for leg splints 10m roll	1	1	1	1	Stockinet. See pages 43-58
6.22	Cotton wool roll 500g	1	1	2	2	Cotton wool. See pages 43-58
6.23	Alcohol swabs	100	100	100	100	70% alcohol swabs for skin cleansing prior to injection
6.24	Nail brush	1	1	1	1	Nail brush
6.25	Thermometer for refrigerator	1	1	1	1	If Tetanus vaccine and Immunoglobin are on board
6.26	Mortuary transfer bag	1	1	1	1	see pages 334 – 336
DISIN	FACTANTS, DISINSECTANTS					
6.27	Water disinfection set including measure kit/ test stripes for pH and for residual chlorine	1	1	1	1	To disinfect potable water tanks with chlorine effectively. See pages 359-360.
6.28	Disinfectant solution for medical instruments, 1000 ml: 3 % aqueous phenolic solution	1	1	1	1	For disinfection of used instruments* and thermometers, see page 331. *Caution: All items entering the skin or are in direct contact with mucous membranes should be single use (i.e. injection needles, urinary catheters.

6.29	Disinfectant for surfaces and floor, 1000 ml concentrate: 2% cetrimide solution or 3% aqueous phenolic solution	1	1	1	1	For disinfection of contaminated surfaces, hard-surface objects and floors (non-food handling area), see page 331.
6.30	Disinfectant for surfaces and floor 1000 ml concentrate: sodium hypochlorite 100mg/ litre	2	2	2	2	For disinfection of food- handling area: cutlery, dishes, plates, glasses), see page 331
6.31	Chlorpyrifos 5g/l in Bait stations or gels	20	20	20	20	To use against cockroaches in food storage and preparation area, see pages 362-365
6.32	Chlorpyrifos-methyl 7-10 g/l Spray – 1 piece	10	10	110	10	To use against cockroaches in other areas than food storage and preparation area See pages 362-365
6.33	Insecticide spray Permethrine, natural pyrethrins or chlorpyriphos-methyl	1	2	3	4	For space spraying, not for skin See pages 362-365
7	IMMOBILIZATION AND TRANSPORTATION	EQUIP	MENT			1 3
7.1	Malleable finger splint	1	1	1	1	Malleable splints (small). See pages 43-58.
7.2	Malleable forearm/ hand splint	2	2	2	2	Malleable splints (medium). See pages 43-58.
7.3	Malleabloe splint legs	2	2	2	2	Malleable splints (large). See pages 43-58.
7.4	Stretcher	1	1	1	1	Stretcher equipment (a system for trauma management, i.e. immobilization and stretcher equipment most suited for treatment in the vessel concerned. Preferably allowing crane/helicopter lifting. See page 7
7.5	Cervical rigid collar variable size	1	1	1	1	for neck immobilisation. See pages 7, 45