

NATO STANDARD

AMedP-1.9

**MINIMUM REQUIREMENTS
FOR EMERGENCY MEDICAL SUPPLIES
ON BOARD SHIPS**

Edition A Version 2

FEBRUARY 2020



NORTH ATLANTIC TREATY ORGANIZATION

ALLIED MEDICAL PUBLICATION

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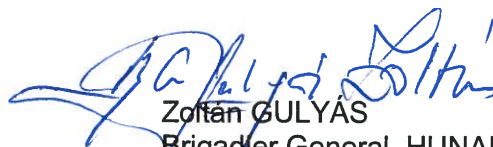
NORTH ATLANTIC TREATY ORGANIZATION (NATO)

NATO STANDARDIZATION OFFICE (NSO)

NATO LETTER OF PROMULGATION

3 February 2020

1. The enclosed Allied Medical Publication AMedP-1.9, Edition A, Version 2, MINIMUM REQUIREMENTS FOR EMERGENCY MEDICAL SUPPLIES ON BOARD SHIPS, which has been approved by the nations in the Military Committee Medical Standardization Board, is promulgated herewith. The agreement of nations to use this publication is recorded in STANAG 1208.
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Director, NATO Standardization Office

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RECORD OF SPECIFIC RESERVATIONS

[nation]	[detail of reservation]
DEU	<p>Germany reserves the right:</p> <p>In compliance with COUNCIL DIRECTIVE 2010/32/EU implementing the Framework Agreement on prevention from sharp injuries in the hospital and healthcare sector concluded by HOSPEEM and EPSU, the Ordinance on Safety and Health Protection at Work involving Biological Agents (Biological Agents Ordinance – Biostoffverordnung) and the Technical Regulation for Biological Agents (TRBA) 250, working procedures and work equipment used by Health Service Institutions must be designed or selected in such a way as to prevent or minimize injuries caused by all medical sharps (including needle-sticks). This is achieved by using safe instruments. TRBA 250 prescribes the use of these instruments in the following work areas:</p> <ol style="list-style-type: none"> 1. Treatment and care of patients proven to be infected with pathogens of risk group 3 (including 3**) or higher, treatment of patients endangering others, activities carried out by rescue services and in emergency receptions and activities carried out in hospitals and infirmaries in law enforcement institutions. 2. Irrespective of No. 1, safety equipment must be used in all activities where a risk of infection due to needle-stick injuries exists or can be assumed. In particular, these activities include blood taking, any other punctures for taking body fluids and obtaining vascular access. 3. Concerning all other activities not covered by Nos. 1 and 2 the employer must assess the risks of accidents and infection in his risk assessment and take appropriate measures. If these activities are carried out on board ships, safe instruments must be added to the following items specified under "Annex A - A.2 Equipment" Disposable scalpels, Equipment for injection and Equipment for infusion.
DNK	<p>The Danish Navy is basically using the same medicine chests as recommended by the Danish Maritime Authority (DMA). DMA is committed to working through the IMO to create globally applicable regulations for international shipping. Danish ships always carry a mandatory medicine chest on board in which the selection of medicine and equipment has been determined by an executive order. DKN navy ships in international operations are therefore using the civilian Medicine chest A as a minimum as recommended by the</p>

	DMA through IMO. The medicine and equipment on board DKN Navy ships is therefore not necessarily exactly equal, both in quality as well as quantity, to the medicine and equipment listed in Annex A.
FRA	The minimum quantities of medicines held on board French ships may sometimes differ from the minimum quantities described in AMedP-1.9.
GRC	The subject STANAG fully complies with the WHO's "International Medical Guide for Ships" publication. Nevertheless, referred publication applies to maritime ships with a physician not always aboard. Given the fact a physician serves as a medical officer in a large portion of ships, medical supplies should be adapted in order to support therapeutic interventions. Pursuantly to the Hellenic Navy applicable directions, medical supplies are classified according to the presence of a physician aboard or not and quantities are adapted to the crew number.
ITA	ITA Navy does not include in its Equipment Aciclovir, Haloperidol and Zidovudine
LTU	Lists of emergency medical supply on board ships will be prepared according to warship type and valid national documents.
LVA	Medical supplies on board ships are defined accordingly to the ship type, national regulations and medical guidelines.
TUR	IT is assessed that there is no need to have Misoprol and Fluoerscein in the minimum requirements for emergency medicine on board ships due to the very low possibility to encounter a post-partum haemorrhage and to the fact that shis medical crew will not operate a corneal damage case and request a madevac.
<p>Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Database for the complete list of existing reservations.</p>	

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<p>CHAPTER 1 INTRODUCTION</p>

This standard defines the essential requirements for emergency medical supplies on board ships.

Participating nations agree that a certain amount of medical supplies on board ships is required in order to provide emergency medical care.

Participating nations agree that interoperability between ships and nations requires a standardized list of emergency medical supplies.

Participating nations agree that ships will carry the medical supplies detailed below.

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CHAPTER 2 CONTENT

2.1 OVERVIEW

Nations are to ensure that emergency medical supplies are readily available on board all navy ships. In order to establish interoperability as well as coherence to civilian standards the minimum requirements for emergency medical supplies on board ships are dictated by the International Medical Guide for Ships, as published by the World Health Organization, in collaboration with the International Labour Organization and the International Maritime Organization^{1 2}.

The emergency medical supplies on board navy ships consists of medication and equipment. In quantifying the emergency medical supply of medication on board ships, the International Medical Guide for Ships defines three categories of ships:

Category A	Category B	Category C
Ocean-going merchant vessels without a doctor on board.	Merchant vessels engaged in coastal trade or going to nearby ports, and not more than 24 hours away from a port of call.	Fishing boats or private craft that are never more than a few days from home port, or only a few hours from a port of call.

In order to be able to apply the civilian standard to navy ships these categories are redefined, using the Maritime Medical Planning Guide (MMPG):

Category A	Category B	Category C
Navy ships operating outside NATO territory and/or conducting high risk operations.	Navy ships operating within NATO territory and conducting low or medium risk operations.	Not applicable to navy ships.

2.2 MEDICATION

The minimum emergency supply of medication on board ships is listed in Annex A (Medicines). If a nation for any reason does not hold a medicine mentioned in this list, it will ensure that a different medicine is available. This medicine shall be equal, both in quality as well as quantity, to the medicine listed in Annex A.

¹ International Medical Guide for Ships 3rd edition. World Health Organization 2007.

² Quantification addendum: international guide for ships, third edition. World Health Organization 2010.

2.3 EQUIPMENT

The minimum emergency supply of medical equipment on board ships is listed in Annex A (Equipment). If a nation for any reason does not hold a piece of equipment mentioned in this list, it will ensure that a different piece of equipment is available. This equipment shall be equal, both in quality as well as quantity, to the equipment listed in Annex B.

2.4 CLOSING REMARKS

Approval has been formally granted by the World Health Organization to reproduce parts of the following publications.

- International Medical Guide for Ships 3rd edition, 2007.
- Quantification addendum: International Guide for Ships 3rd edition, 2010.

ANNEX A International Medical Guide for Ships 3rd edition, Ship's Medicine Chest

Medicines

Name	Form ³	Strength	Indication ⁴	Quantities per 10 crew ⁵			Notes
				A	B	C	
Acetylsalicylic acid	Tab	300 mg	Pain, fever, blood clots	50	50	-	
Aciclovir	Tab	400 mg	Herpes simplex/zoster	70+	35+	-	
Adrenaline	amp	1 mg/ml	Anaphylaxis	10+	5+	5+	
Amoxicillin/clavulanic acid	Tab	875mg/125 mg	Infections	20	10	-	
Artemether	amp	80 mg/ml	Malaria treatment	12+	12+	-	
Artemether+lumefantrine	Tab	20mg/120mg	Malaria treatment	24+	24+	-	Double if crew size >30
Atropine	amp	1.2 mg/ml	MI/organophosphate poisoning	10+	5+	-	Double quantity if carrying organophosphates
Azithromycin	Tab	500 mg	Infections	10+	5+	-	Double if crew size >30
Ceftriaxone	amp	1 g	Infections	15	5+	-	
Cetirizine	Tab	10 mg	Hayfever/hives/dermatitis	30+	30+	-	
Charcoal, activated	powder		Poisoning	120g+	120g+	-	
Ciprofloxacin	Tab	250 mg	Infections	20+	10+	-	Double if crew size >30
Cloves, oil of	Liq		Toothache	10 ml	10 ml+	-	
Dexamethasone	amp	4mg/ml	Severe asthma/anaphylaxis	3	1	-	
Diazepam	Tab	5 mg	Alcohol withdrawal	50+	20+	-	
Docusate with senna	Tab	50mg/8mg	Constipation	30+	-	-	
Doxycycline	Tab	100 mg	Infections	10	-	-	
Ethanol, hand cleanser	Gel	70%	Hand cleansing	500ml	500ml +	100ml +	
Ethanol	Liq	70%	Disinfect instruments	500ml	100ml	-	
Fluorescein	eye strips	1%	Detect corneal damage	20+	20+	-	
Furosemide	amp	40mg/4ml	Pulmonary oedema	5+	5+	-	
Glucagon	amp	1 mg	Hypoglycaemia	1+	1+	-	

³ amp=ampoule; crm=cream; inh=inhalation; liq-liquid; oint=ointment; tab=tablet

⁴ AF=atrial fibrillation; HTN=hypertension; MI=myocardial infarction

⁵ Category of ships; see main text for definitions; quantities marked with an '+' are suggested quantities irrespective of crew size. The assumed duration of each trip is up to 3-4 weeks

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Haloperidol	amp	5mg/ml	Psychosis/sever agitation	5	5+	-	
Hydrocortisone	crm	1%	Allergy/inflammatory skin	2x30g	1x30g	-	One tube per patient
Ibuprofen	tab	400 mg	Inflammation, pain	100	50	50+	
Isosorbide dinitrate	tab	5 mg	Angina/MI	10	10	5+	
Lignocaine	amp	1%, 5ml	Suturing/minor surgery	5	5	-	
Loperamide	tab	2 mg	Diarrhoea	30	30	10+	
Mebendazole	tab	100mg	Intestinal worms	6+	6+	-	
Metoprolol	tab	100 mg	HTN/AF/Angina/Migraine	60+	-	-	
Metronidazole	tab	500 mg	Infections	30+	20+	-	
Miconazole	crm	2%	Fungal skin infections	2x30g	1x30g	-	Double quantities if females on board
Midazolam	amp	5mg/ml	Epileptic fits	10+	5+	-	
Misoprostol	tab	200 µg	Post-partum haemorrhage	3+	3+	-	Only if females on board
Oral Rehydration Solution	powder	sachet	Dehydration due to diarrhoea	15l(75)	10l(50)	2l(10) +	Quantities in brackets are number of sachets based on sachets made up to 200ml
Oxymetazoline	nasal drop	0.50%	Nasal obstruction/drain sinuses	2	1	-	One bottle per patient
Morphine	amp	10mg/ml	Severe pain	10	10	-	
Morphine	Liq	1mg/ml	Severe pain in patients able to eat and drink	100ml +	100ml +	-	
Naloxone	amp	0.4mg/ml	Opiate overdose	10+	5+	-	
Omeprazole	tab	20 mg	Reflux, peptic ulcers	30+	30+	-	
Ondanestron	tab	4 mg	Vomiting, sea-sickness	10	10	10+	
Paracetamol	tab	500 mg	Pain and fever	100	50	25	
Permethrin	Lot	1%	Lice	200ml +	100ml +	-	Double if crew size >30
Permethrin	Lot	5%	Scabies	300ml +	100ml +	-	100ml per patient
Povidone iodine	oint	10%	Disinfect skin/wounds	1x25g	1x25g	-	
Povidone iodine	Liq	10%	Disinfect skin/wounds	100 ml	100 ml	100ml +	
Prednisone	Tab	25 mg	Asthma/inflammatory conditions	30+	30+	-	
Salbutamol	Inh	100µg/dose	Asthma/bronchitis/emphy sema	1	1	-	One inhaler per patient
Sodium chloride	Liq	0.9%, 1 litre	Fluid replacement	5+	1	-	
Tetracaine [amethocaine]	eye drop	0.50%	Eye examination	20+	20+	-	

Tetracycline	eye oint	1%	Minor eye infections	2	1	1+	
Vitamin K	amp	10mg/ml	Reverse warfarin or similar	2+	2+	-	
Water for injection	amp	5 ml	Reconstitute injections	10	5+	-	
Zidovudine + lamivudine ⁶	Tab	300mg/150 mg	Needle-stick injury prophylaxis	56+	56+	-	
Zinc oxide	paste/oi nt	20%	Irritated skin	200g+	100g+	100g+	4x25g or 3x30g tubes per 100g

Equipment

	Category	Recommended item	Quantity per 10 crew
1	RESUSCIATION EQUIPMENT		
	Appliance for the administration of oxygen	Portable oxygen set, complete, containing:	1
		Oxygen cylinder, 2l/200bar	1
		Spare oxygen cylinder, 2l/200bar	1
		Pressure regulating unit and flow meter with tubes such that ship's industrial oxygen can also be used	1
		Disposable face masks of choice: including simple face mask and non-rebreathing mask	3
	Oropharyngeal airway	Guedel airway (Mayo-tube): sizes medium and large	2
	Mechanical aspirator	Manual aspirator to clear upper airway, including 2 catheters	1
	Bag and mask resuscitator	Ambubag (or equivalent); supplied with large, medium and small masks	1
	Cannula for mouth-to-mouth resuscitation	Brook Airway, Lifeway, pocket face mask or equivalent	1
2	DRESSING MATERIAL AND SUTURING EQUIPMENT		
	Adhesive dressings	Assorted wound-plaster or plaster strips, water-resistant	200
	Sterile gauze compresses	Sterile gauze compresses, 5x5 cm, sterile	100
		Sterile gauze compresses, 10x10 cm, sterile	100
	Gauze roll	Gauze roll, 5 cm and 90 cm or 60 cm x100 m, non-sterile	1
	Gauze dressing with non-adherent surface	Non-adherent gauze dressing, square, 10 cm	100
	Vaseline gauze	Paraffin gauze dressing, 10x10 cm, sterile	50
	Bandage	Elastic fixation bandage, 4 m x 6 cm	3
	Sterile compression bandages	First-aid absorbent gauze-covered cotton pad sewn onto a cotton bandage (ambulance dressing), small/medium/large	5
	Tubular gauze for finger bandage	Tubular gauze bandage for finger bandage with applicator, 5 m	1
	Adhesive elastic bandage	Adhesive elastic bandage, 4 m x 6 cm	10

⁶ Needle-stick injury prophylaxis is subject to frequent changes. For latest advice always check www.cdc.gov.org or www.who.int;

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	Triangular sling	Triangular sling	5
	Sterile sheet for burn victims	Sterile sheet for burn victims	1
	Honey for dressing burns	1 kg	1
	Adhesive sutures or zinc oxide bandages	Adhesive tape, waterproof, skin-friendly, 5 x 1.25 cm	10
	Q-tips	Q-tips (wooden)	100
	Safety pins	Safety pins (stainless steel) 12 pcs	50
	Butterfly sutures	Butterfly sutures, Steristrip® or Leukostrip®, sterile	20
	Skin adhesive	2-octyl cyanoacrylate liquid, 0.5 ml	2
	Suturing equipment	Suture, absorbable with curved non-traumatic needles, 1-0, 3-0 & 4-0 or 5-0	10 each
	Gloves	Disposable examination gloves	50
		Surgical gloves size 6.5, 7.7, 8.5, sterile, in pairs	3 of each size
3	INSTRUMENTS		
	Disposable scalpels	Scalpel, sterile, disposable	20
	Stainless-steel instrument box	Instrument box (stainless steel)	1
	Scissors	Operating scissors, straight (stainless steel)	1
		Bandage scissors (stainless steel)	1
	Forceps	Splinter forceps, pointed (stainless steel)	3
		Teeth tissue forceps (stainless steel)	1
	Needle holder	Needle holder, Mayo-Hegar, 180 mm, straight	1
	Haemostatic clamps	Haemostatic clamp, Halstead mosquito, 125 mm, stainless steel	3
	Disposable razors	Razor, disposable	50
4	EXAMINATION AND MONITORING EQUIPMENT		
	Disposable depressors	Tongue depressor, disposable	100
	Reactive strips for urine analysis	Reactive strips for urine analysis, blood/glucose/protein/nitrite/leukocytes, 50 paper strips	100
	Microscope slides	Microscope slides	100
	Stethoscope	Stethoscope	1
	Aneroid Sphygmomanometer	Sphygmomanometer (blood pressure set), preferably automatic	1
	Standard thermometer	Thermometer, digital if possible	1
	Rectal thermometer	Thermometer, digital if possible	1
	Hypothermic thermometer	Thermometer, 32°-34°, digital if possible	1
	Penlight	Penlight + blue cover	1
5	EQUIPMENT FOR INJECTION, INFUSION, AND CATHETERIZATION		
	Equipment for injection	Syringes, Luer connection, 2 ml, sterile, disposable	50
		Syringes, Luer connection, 5 ml, sterile, disposable	50

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		Hypodermic subcutaneous needle, Luer connection, 16 x 0.5mm, sterile, disposable	20
		Hypodermic intramuscular needle, Luer connection, 40 x 0.8mm, sterile, disposable	20
		Needles, 19G, blunt, "drawing up" type	20
	Equipment for infusion	Intravenous infusion cannula 16G (1.2 mm) and 22G (0.8 mm, Luer-lock connection, sterile non-recap type	10 each
		Intravenous giving set, Luer-lock connection, sterile	3
		Tourniquet, blood-taking type, to be used with with intravenous infusion cannula	1
	Bladder drainage equipment	Penile sheath set with condom catheter, tube, and bag	2
		Short-term urine catheter with soft-eye straight tip Thieman No.12 and No.16 or equivalent, sterile, individually packed, prelubricated or with additional lignocaine/chlorhexidine lubricant	2
		Urine collection bag and tube	2
6	GENERAL MEDICAL AND NURSING EQUIPMENT		
	Eye protection	Plastic goggles or full-face masks	2
	Plastic apron	Disposable	20
	Kidney dish	Kidney dish, stainless steel, 825 ml	2
	Plastic backed towels	Towels, plastic backed, absorbent, 600 x 500 mm	10
	Safety box	Safety box for sharps disposal, 5 l	1
	Mask	Mask, duckbill type, disposable	50
	Tape measure	Tape measure, vinyl coated, 1.5 m	1
	Draw sheets	Draw sheet, plastic 90 x 180 cm	2
	Bedpan	Bedpan, stainless steel	1
	Hot-water bottle	Hot-water bag	1
	Urine bottle	Urinal, male (plastic)	1
	Ice bag	ColdHotpack Maxi	1
	Aluminum foil blanket	Aluminum foil blanket	1
	Condoms	Male condoms	100
	Wash bottle	Plastic wash bottle, 250 ml	1
	Plastic bottle	Bottle, 1 liter, plastic with screw top	3
	Dressing tray	Stainless steel dressing tray, 300 x 200 x 30 mm	1
	Plastic apron	Apron, protection, plastic, disposable	20
	Bowl	Bowl, stainless steel, 180 ml	3
	Specimen jars	Jars, plastic, with lids and labels, 100 ml	10
	Plaster-of-Paris bandage	Bandages, POP, 5 cm and 10 cm x 2.7 m	12 each
	Stockinet	Sizes for arm and leg splints, 10 m roll	1 each
	Cotton wool	Cotton wool roll, 500 g	10
	Alcohol swabs	70% alcohol swabs for skin cleansing prior to injection	200

	Nail brush	Nail brush	1
7	IMMOBILIZATION AND TRANSPORTATION EQUIPMENT		
	Malleable splints	Malleable finger splint	1
		Malleable forearm/hand splint	1

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