



Australian Government

Australian Maritime Safety Authority

MEDICAL CARRIAGE REQUIREMENTS



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References

1. *Navigation Act 2012* Chapter 2, Division 3
2. *Marine Order 11 (Living and working conditions on vessels) 2015*
3. *Marine Order 41 (Carriage of Dangerous Goods) 2009*
4. *Maritime Labour Convention (MLC), 2006*, Standard A4.1 and Guideline B4.1
5. *National Standard for Commercial Vessels (NSCV) Part C, Design and construction, Subsection 7A, Safety Equipment*
6. *International Medical Guide for Ships (IMGS)*, 3rd Edition 2007, World Health Organization (WHO)
7. *Quantification Addendum, International Medical Guide for Ships*, 3rd Edition, (WHO) 2010
8. *Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG)*, 2010 Edition, International Maritime Organization (IMO)

1. Background and purpose

The Maritime Labour Convention (MLC), 2006, establishes standards for the medical care of seafarers when they are employed or engaged on a vessel. Practical implementation of these standards on regulated Australian vessels occurs under the authority of the *Navigation Act 2012*, Chapter 2 (Division 3) and *Marine Order 11 (Living and working conditions on vessels)*, 2015 (Marine Order 11).

Regulated Australian vessels must be equipped with a medicine chest that contains the medicines and medical equipment that would allow an appropriately trained person to treat injuries and illnesses on board the vessel until a patient can be transferred to the care of a medical practitioner.

The information provided in this document is derived from international medical publications, in particular the International Medical Guide for Ships and its Quantification Addendum.

Marine Order 11 requires that each regulated Australian vessel carries a copy of the most recent edition of the International Medical Guide for Ships to assist in the diagnosis and treatment of sick and injured seafarers.

2. Application

This document applies to regulated Australian vessels, as defined in the *Navigation Act 2012*, section 15.

The medical carriage requirements for Australian Domestic Commercial Vessels are contained in the National Standard for Commercial Vessels (NSCV) Part C.

3. Medical carriage requirements

Each regulated Australian vessel must carry the scale of medicines and medical equipment commensurate with the vessel's usual voyage category as described in Table 1.

Table 1: Vessel category

Category A	Vessel on unlimited voyages where medical supplies can be restocked if necessary.
Category B	Vessel on short voyages not extending more than 150 nautical miles from the nearest port with emergency medical facilities. This may be extended to 200 nautical miles if the vessel is continuously within range of helicopter rescue services.
Category C	Vessel operating in smooth or partially smooth waters within short range of emergency medical facilities.

The Annexes to this document contain lists of medicines and medical equipment considered to be the minimum requirements for regulated Australian vessels.

Each medicine chest should contain medical supplies that are reasonably necessary to ensure that persons on board the vessel have access to adequate first aid. Since what constitutes “reasonably necessary” will depend on circumstances, the vessel owner will need to take into account a number of factors including the following;

- the number and gender of persons who will be on board the vessel at any particular time;
- the type of vessel and any particular risks inherent to its operation;
- the particular health hazards of the cargoes being carried;
- the length of the proposed voyage; and
- the distance the vessel will be from medical facilities on shore and the capacity for evacuation of sick or injured persons in an emergency.

Section 3.3 describes the procedure for requesting a variation from the minimum requirements.

All vessels should at all times have an up to date inventory of medicines and medical equipment held on board. Section 5.7 has further information on inventories.

Medical supplies which are goods for therapeutic use within the meaning of the *Therapeutic Goods Act 1989* should conform to both these general standards and the specific standards applicable to those goods under that Act.

3.1. Medicines

Annex A details the minimum medicines that are required to be carried on board regulated Australian vessels.

Masters and/or other seafarers responsible for keeping and managing medicines on board should familiarise themselves with the International Medical Guide for Ships (IMGS). In particular the:

- medical symptoms and treatment advice in the main body of the IMGS;
- guidance for managing the medicine chest; and
- information about specific categories of medicines contained in Chapter 33 - *The Ships Medicine Chest*.

3.2. Medical equipment

In addition to the medicines described above, regulated Australian vessels are to carry (as a minimum) the medical equipment at Annex B. This list includes first aid kits for distribution throughout the vessel, but does not include first aid kits that may be required to be carried in survival craft.

Information on the specifications for survival craft first aid kits can be found in *Marine Order 25 (Equipment – lifesaving) 2016*.

3.3. Requesting a variation

Should an owner consider that, due to the nature of the vessel and its operations, they wish to apply for a variation to the minimum requirements or for the use of an equivalent; they may apply to labourconventions@amsa.gov.au for approval.

The process for applying for an equivalent is contained in Marine Order 11 Section 8.

Applications for an equivalent will only be considered by AMSA if the owner can demonstrate that they have consulted with their pharmaceutical supplier or qualified medical professional, an alternate inventory is proposed and an appropriate risk assessment has been conducted on the impact of the removed or replaced items.

When considering a variance from the Annexes and preparing an inventory of medicines, vessel owners, pharmacists and consulting medical practitioners should be aware of the importance of the inventory of medicines and equipment being in the same format, and grouping/category as the Annexes. In the event that a vessel requires telemedical advice, the consulting medical practitioner may not have a copy of the vessel's specific list of medical supplies. However, they will most likely have access to this document or the International Medical Guide for Ships which will aid them in understanding what medicines are at hand on board the vessel.

4. Vessels carrying dangerous goods

All vessels carrying any quantity of hazardous or dangerous chemical or goods (as defined under the International Maritime Dangerous Goods (IMDG) Code) as cargo, or for shipboard use, shall have available on board the appropriate additional first aid, medicinal antidotes and other additional treatments as specified by the manufacturer, supplier or other authorised body or publication, including the Medical First Aid Guide for Use in Accidents Involving Dangerous Goods (MFAG) and the material safety data sheets (MSDS) relating to the hazardous chemical or goods.

Marine Order 11 requires that appropriate personal protective equipment, emergency response and medical first aid medicines and equipment are also carried on board.

As stated in the MFAG, medicines and equipment already available in the vessels medicine chest may be counted towards the MFAG requirements.

5. Medical storage and administration

5.1. Packaging

Wherever practicable, medicines should be supplied in their original sealed blister or foil packages. Where recommended quantities are not exactly compatible with the standard commercial package sizes, advice on appropriate quantities should be sought from the dispensing pharmacist.

5.2. Labelling and medicine information

Medical instructions and medicine labeling must be in English and should include the following information:

1. generic or drug name
2. strength or quantity as applicable
3. indications
4. contraindications/warnings
5. instruction for use and dosage
6. expiry date and batch/lot number
7. contact details of the supplying pharmacy
8. special instructions for storage, if any
9. special marking stating that it is a controlled substance, if applicable.

Reference material (such as product information and consumer medicine information) or product use and identification cards related to the medicines carried must be available on board the vessel.

5.3. Medicine chest design

The vessel's medical supplies should be kept in a medicine chest of suitable size, design and construction that includes the following:

- an outer door fitted with an efficient lock
- an inner cupboard, independently lockable, for the storage of controlled drugs

Each inner cupboard key should be kept in the custody of the Master or nominated responsible officer.

Storage should be secure enough to prevent misuse, while ensuring that prompt access to medical supplies is available when they are required. The nature of some medicines requires special care to be taken in their storage and security. Advice provided by the dispensing pharmacist regarding appropriate storage should be followed, including any requirements for refrigeration.

5.4. Location of medicine chest

The medicine chest should be in a separate compartment adjacent to the vessel's hospital accommodation or adjacent to the accommodation provided for the vessel's officers. It must not be located in a recreation room, sleeping room, mess room, wash place or other space provided as accommodation for the crew.

5.5. Lighting/ventilation

The medicine chest should have lighting located inside or immediately outside the chest that enables all the contents of the chest to be clearly seen in the absence of light from another source. The chest and the place in which it is located must be ventilated so as to avoid premature deterioration of its contents.

5.6. Controlled drug register

Requirements for administering controlled drugs are contained in Marine Order 11 and include the use of an approved controlled drug register when these items are held on board.

5.7. Inventory of medicines

A list of all medicines and medical supplies must be maintained on board all regulated Australian vessels. The list should be regularly updated and contain for each item:

- the expiry date
- storage conditions
- quantities remaining after purchase or use
- disposal information

All items contained in the medicine chest should have an expiration date and should be re-supplied as necessary by the expiry date. Marine Order 11 details the requirements for the management of expired medicines and medical supplies.

5.8. Medical Report form (AMSA 278)

Whenever a seafarer's medical condition requires treatment other than on board the vessel, a Medical Report form (AMSA 278) is to be accurately completed. The purpose of this form, which is available on the AMSA web site (www.amsa.gov.au), is to facilitate the exchange of medical and related health information between the vessel and shore to facilitate the necessary treatment.

5.9. Medical Log

It is recommended that a medical log book to record every case of illness or injury involving any member of the crew, passenger or other persons engaged on the business of the vessel; the nature thereof; and the medical treatment provided on board each regulated Australian vessel.

5.10. Electronic records

The records noted above that are not required to be kept in an approved form, may be kept and managed electronically.

6. Medicine chest inspection and certification requirements

The MLC, 2006 requires regular inspection of the vessel's medicine chest by the competent authority. This is achieved in Australia through the flag State inspection regime.

In addition, Marine Order 11 requires that the Master inspects the medicine chest and medical equipment at least once every 12 months. Owners of regulated Australian vessels may choose to arrange to have this annual inspection conducted by their supplying pharmacist or a doctor.

The inspection of the medical chest should:

- ensure that the medicines and medical equipment remain in date and that packaging is not damaged and that the medical equipment is in good working order and free from damage
- ensure that there is an accurate, up-to-date list of all medicines and medical equipment on board.

If the supplying pharmacist or doctor is conducting the inspection, the Master should provide the following information:

- details of the recommendations/guidance on which the medicine chest is based (for example, which Scale of medicines/equipment the vessel requires)
- the number of persons permitted to be carried on board the vessel
- whether the vessel carries any dangerous good/chemicals.

If the review shows that the medicine chest is stocked so that the inventory is appropriate to the particular vessel's route, operation and the number and gender of persons on board, then a documentary record of the inspection should be provided or recorded onboard if conducted by the Master.

This record may include a statement to the effect that all required contents of the medicine chest are present and will not expire during the period covered by the issued documentation or that appropriate arrangements are in place for the replacement of medications that will expire. The document should also include full details of the vessel, dates of issuance and expiry, full name and details of the qualifications of the inspector, and be signed.

This record of annual inspection must remain onboard for sighting by a flag State or port State control inspector as required.

7. Foreign drug regulations

Some countries do not allow the sale of controlled drugs to vessels not registered in that country. Therefore, vessel owners are encouraged to become familiar with the controlled drug distribution laws in the countries where their vessels are trading and to communicate directly with the relevant authorities to learn of the options available for the procurement and delivery of controlled drugs to vessels operating in these areas.

8. Administering medicines and TeleMedical Advice Services

Even well-trained crew members are not medically qualified. Therefore, a doctor should always be consulted about serious illness or injury or when any doubt exists about the action to take in treating a patient.

The Master or other persons designated with responsibilities for medical care or first aid on board a vessel should make use of all available medical advice.

Medications should only be administered after careful assessment of the patient, noting any past allergy or sensitivity to medications. Seek advice if unsure of the correct treatment

For vessels in the Australian Search and Rescue Region, a TeleMedical Advice Service is provided by CareFlight through the Rescue Coordination Centre (Australia).

JRCC Australia contact details are:

Australian callers 1800 641 792

International callers +61 2 6230 6811

HF DSC

MMSI 005030001

Inmarsat SAC 32 via LES 212 or 312.

www.amsa.gov.au/emergency-contacts/index.asp

CAUTION: All injectable medications should only be administered by the IM (intramuscular) or SC (subcutaneous i.e. under the skin) routes. Refer to page 324 of the International Medical Guide for Ships, 3rd edition, for information on these injections. Do NOT attempt to use IV (Intravenous) injections, as this requires considerable skill and practice, and often requires different doses and rates of administration.

9. Responsibilities and training

The vessel owner is ultimately responsible for the content of the medicine chest on board a vessel. Therefore, when putting together the medicine chest, the owner should seek qualified medical advice, particularly when considering travel to areas where certain medical risks (e.g. malaria) exist.

The Master is responsible for managing medical supplies kept on board to ensure that the medications are properly dispensed and that records are maintained. This responsibility may be delegated to a properly trained and certified crew member.

Seafarers on board whom are designated to provide medical care or first aid must have completed training and be certified, as required by Marine Order 11, Division 12.

Annex A - List of medicines

Notes:

Category A Vessel on unlimited voyages where medical supplies can be restocked if necessary.

Category B Vessel on short voyages not extending more than 150 nautical miles from the nearest port with emergency medical facilities.
May be extended to 200 nautical miles if vessel is continuously within range of helicopter rescue services.

Category C Vessel operating in smooth or partially smooth waters within short range of emergency medical facilities.

	Name	Form	Strength	Indication	A	B	C	Notes
1	Acetylsalicylic Acid	tablet	300mg	Pain, fever, blood clots	50 per 10 crew	50 per 10 crew	Nil	
2	Aciclovir	tablet	400mg	Herpes simplex/zoster	70 per vessel	70 per vessel	Nil	
3	Adrenaline	ampoule	1mg/ml	Anaphylaxis	10 per vessel	5 per vessel	5 per vessel	
4	Amoxicillin/clavulanic acid	tablet	875mg/125mg	Infections	20 per 10 crew	10 per 10 crew	Nil	
5	Artemether + lumefantrine	tablet	20mg/120mg	Malaria treatment	24 per vessel	24 per vessel (Note)	Nil	Double if crew size >30 Malaria treatment may be excluded for category B vessels that do not operate in tropical waters.
6	Atropine	ampoule	1.2mg/ml (See Note)	MI ^a /organophosphate poisoning	10 per vessel	5 per vessel+	Nil	Double quantity if carrying organophosphates Some pharmacists may find Atropine 0.6mg/ml easier to source, quantity and dosage advice to be amended accordingly.
7	Azithromycin	tablet	500mg	Infections	10 per vessel	5 per vessel	Nil	Double if crew size >30
8	Ceftriaxone	ampoule	1g	Infections	15 per 10 crew	5 per vessel	Nil	

	Name	Form	Strength	Indication	A	B	C	Notes
9	Cetirizine	tablet	10mg	Hayfever/hives/ dermatitis	30 per vessel	30 per vessel	Nil	
10	Charcoal, activated	powder		Poisoning	120g per vessel	120g per vessel	Nil	May be substituted with suspension (50g in 250ml)
11	Ciprofloxacin	tablet	250mg	Infections	28 per vessel	14 per vessel	Nil	Double if crew size >30
12	Cloves, oil of	liquid		Toothache	10ml per 10 crew	10ml per vessel	Nil	May be substituted with Oral-eze or similar
13	Dexamethasone	ampoule	4mg/ml	Severe asthma/ anaphylaxis	5 per 10 crew	5 per 10 crew	Nil	
14	Diazepam	tablet	5mg	Alcohol withdrawal	50 per vessel	20 per vessel	Nil	May be omitted for category B vessels
15	Docusate with senna	tablet	50mg/8mg	Constipation	30 per vessel	Nil	Nil	
16	Doxycycline	tablet	100mg	Infections	14 per 10 crew	Nil	Nil	
17	Ethanol, hand cleanser	gel	70%	Hand cleaning	500ml per 10 crew	500ml per vessel	100ml per vessel	
18	Ethanol	liquid	70%	Disinfect instruments	500ml per 10 crew	100ml per 10 crew	Nil	
19	Fluorescein	eye strips	1%	Detect corneal damage	20 per vessel	20 per vessel	Nil	Fluorescein eye drops may be substituted for strips
20	Frusamide	ampoule	40mg/4ml	Pulmonary oedema	5 per vessel	5 per vessel	Nil	
21	Glucagon	ampoule	1mg	Hypoglycaemia	1 per vessel	1 per vessel	Nil	
22	Haloperidol	ampoule	5mg/ml	Psychosis/severe agitation	5 per 10 crew	5 per vessel	Nil	Haloperidol may be substituted with an equivalent preparation for psychosis/severe agitation – consult with dispensing pharmacist
23	Hydrocortisone	cream	1%	Allergy/inflammatory skin	2 x 30g per 10 crew	1 x 30g per 10 crew	Nil	One tube per patient

	Name	Form	Strength	Indication	A	B	C	Notes
24	Ibuprofen	tablet	400mg	Inflammation/pain	100 per 10 crew	50 per 10 crew	50 per vessel	
25	Isosorbide dinitrate	tablet	5mg	Angina/MI ^a	10 per 10 crew	10 per 10 crew	5 per vessel	May substitute: Glyceryl trinitrate 400mcg sublingual spray. Category A – 2 Category B – 1 Category C – 1 Consult with dispensing Pharmacist.
26	Lignocaine	ampoule	1%, 5ml	Suturing/minor surgery	5 per 10 crew	5 per 10 crew	Nil	
27	Loperamide	tablet	2mg	Diarrhoea	30 per 10 crew	30 per 10 crew	10 per vessel	
28	Mebendazole	tablet	100mg	Intestinal worms	6 per vessel	6 per vessel	Nil	
29	Metoprolol	tablet	100mg	HTN/AF ^a /Angina/Migrane	60 per vessel	Nil	Nil	
30	Metronidazole	tablet	400mg	Infections	42 per vessel	21 per vessel	Nil	
31	Miconazole	cream	2%	Fungal skin infections	2 x 30g per 10 crew	1 x 30g per 10 crew	Nil	Double quantities if females on board
32	Midazolam	ampoule	5mg/ml	Epileptic fits	10 per vessel	5 per vessel	Nil	
33	Misoprostol	tablet	200ug	Post-partum haemorrhage	3 per vessel	3 per vessel	Nil	Only required if pregnant females expected on board
34	Morphine	ampoule	10mg/ml	Severe pain	10 per 10 crew	10 per 10 crew	Nil	
35	Morphine	liquid	2mg/ml	Severe pain in patients able to eat and drink	200ml per vessel	200ml per vessel	Nil	May substitute Codeine Phosphate 30mg, tablet Category A – 30 Category B – 15 Consult with dispensing Pharmacist

	Name	Form	Strength	Indication	A	B	C	Notes
36	Naxolone	ampoule	0.4mg/ml	Opiate overdose	10 per vessel	5 per vessel	Nil	
37	Omeprazole	tablet	20mg	Reflux, peptic ulcers	30 per vessel	30 per vessel	Nil	Omeprazole may be substituted with an equivalent preparation for Gastro-oesophageal reflux and peptic ulcer disease. Consult with dispensing pharmacist.
38	Ondanestron	Tablet/ wafer	4mg	Vomiting, sea sickness	10 per 10 crew	10 per 10 crew	10 per vessel	
39	Oral Rehydration Solution	powder	sachet	Dehydration due to diarrhoea	15l (75) per 10 crew	10l (50) per 10 crew	2l (10) per 10 crew	Quantities in brackets are number of sachets based on sachets made up to 200ml
40	Oxymetazoline	nasal drop	0.50%	Nasal obstruction/drain sinuses	2 per 10 crew	1 per 10 crew	Nil	One bottle per patient. May substitute nasal drop/bottle with oxymetazoline nasal spray. Consult with dispensing Pharmacist.
41	Paracetamol	tablet	500mg	Pain and fever	100 per 10 crew	50 per 10 crew	25 per 10 crew	
42	Paracetamol/codeine phosphate	tablet	500mg/15mg	Moderate-severe pain and cough suppression	20 per 10 crew	20 per 10 crew	20 per 10 crew	
43	Permethrin	lotion	1%	Lice	200ml per vessel	100ml per vessel	Nil	Double if crew size >30
44	Permethrin	lotion	5%	Scabies	300ml per vessel	100ml per vessel	Nil	100ml per patient
45	Providone iodine	ointment	10%	Disinfect skin/wounds	1 x 25g per 10 crew	1 x 25g per 10 crew	1 x 25g per 10 crew	

	Name	Form	Strength	Indication	A	B	C	Notes
46	Providone iodine	liquid	10%	Disinfect skin/wounds	100ml per 10 crew	100ml per 10 crew	100ml per 10 crew	
47	Prednisone	tablet	25mg	Asthma/inflammatory conditions	30 per vessel	30 per vessel	Nil	
48	Salbutamol	inhalation	100ug/dose	Asthma/bronchitis/emphysema	1 per 10 crew	1 per 10 crew	1 per 10 crew	One inhaler per patient. Volume spacer to be included.
49	Sodium Chloride	liquid	0.9%, 1 litre	Fluid replacement	5 per vessel	1 per vessel	Nil	
50	Tetracaine [amethocaine]	eye drop	0.5%	Eye examination	20 per vessel	20 per vessel	Nil	
51	Tetracycline	eye ointment	1%	Minor eye infections	2 per 10 crew	1 per 10 crew	1 per 10 crew	One tube per patient Aust substitute: chloramphenicol 1% ointment. Consult with dispensing Pharmacist.
52	Vitamin K	ampoule	10mg/ml	Reverse warfarin or similar	5 per vessel	5 per vessel	Nil	
53	Water for injection	ampoule	5ml	Reconstitute injections	10 per 10 crew	5 per vessel	Nil	Only used to reconstitute ceftriaxone
54	Zidovudine + lamivudine	tablet	300mg/150mg	Needle stick injury prophylaxis	56 per vessel	56 per vessel (Note)	Nil	May be omitted for Category B vessels if acceptable evacuation and treatment plan is in place for needle stick injury.
55	Zinc oxide	paste/ ointment	20%	Irritated skin	200g per vessel	100g per vessel	100g per vessel	4 x 25g or 3 x 30g tubes per 100g

a. AF=atrial fibrillation; HTN=hypertension; MI=myocardial infarction

Annex B - List of medical equipment

Notes:

Category A Vessel on unlimited voyages where medical supplies can be restocked if necessary.

Category B Vessel on short voyages not extending more than 150 nautical miles from the nearest port with emergency medical facilities. May be extended to 200 nautical miles if vessel is continuously within range of helicopter rescue services.

Category C Vessel operating in smooth or partially smooth waters within short range of emergency medical facilities.

Equipment marked MF is additional equipment recommended in the Medical First Aid Guide (MFAG) published by IMO, for vessels carrying dangerous goods. It is not required for other vessels.

Equipment category	Specification	A	B	C
1 Resuscitation equipment				
Automated External Defibrillator (AED) device	Automated unit with audible instructions given in English. To meet applicable medical device standard as defined in <i>Therapeutic Goods Act 1989</i> .	1 per vessel	1 per vessel	1 (passenger vessels)
Manual resuscitation appliance	Valve and bag type. One must be supplied for ordinary vessels. Two are required for vessels carrying dangerous cargoes.	1 per vessel 2 (MF)	1 per vessel 2 (MF)	1 per vessel 2 (MF)
Mechanical aspirator to clear upper respiratory passages Aspirator to clear airways (manual, hand operated) + two catheters		1 per vessel	1 per vessel	Nil
Equipment for mouth to mouth resuscitation	Disposable mouth to mouth plastic shield Guedel Airway sizes 1, 3 and 4	6 per vessel 2 sets per vessel	6 per vessel 2 sets per vessel	1 per vessel Nil

Equipment category	Specification	A	B	C
Appliance for the administration of oxygen	<p>1 portable oxygen giving set with at least 1 x two litre 200 bar cylinder ready for use, with a spare two litre 200 bar cylinder, and</p> <ol style="list-style-type: none"> 1. 1 flow meter unit giving a minimum setting of 4 litres per minute 2. 1 pressure regulating unit 3. 1 set of tubing 4. 5 x 24% oxygen disposable face masks 5. 5 x 35% oxygen disposable face masks. <p>Each part must be constructed so that it can only be assembled in the correct manner.</p> <p>Note 1: Items (2) and (3) may be combined in one unit.</p> <p>Note 2: A carry case for the set need only contain one oxygen cylinder if a second is stored nearby and is interchangeable with the first with negligible interruption to the flow of oxygen.</p>	1 per vessel	1 per vessel	1 (passenger vessels)
Appliance for the administration of oxygen for vessels carrying dangerous cargoes	<p>In addition to the above, vessels carrying dangerous cargoes must carry 10 x 60% disposable facemasks; and</p> <p>1 x 40 litre 200 bar cylinder ready for direct use at the vessel's hospital, with one flow-meter unit (two ports) for supplying of oxygen to two persons at the same time.</p> <p>(Small cylinders may be used to give the equivalent amount.)</p> <p>If more than one non-portable oxygen cylinder is used, there must be two flow-meter units for supply of oxygen to two persons at the same time.</p>	MF	MF	MF
2 Dressing and suturing equipment				
Cotton wool balls, sterile	Pack of 5, in damp proof packaging	100 per vessel	50 per vessel	Nil
Bandage, crepe	7.5cm x 1.5m	4 per 10 crew	2 per 10 crew	Nil
Bandage, elastic, adhesive	7.5cm x 4m	10 per 10 crew	1 per 10 crew	1 per 10 crew
Bandage, gauze, conforming	5cm x 5m	4 per 10 crew	4 per 10 crew	Nil
Bandage, gauze, tubular	Seamless, of a size suitable for finger dressings, 5m with applicator, plus 1 refill	1 per 10 crew	1 per 10 crew	Nil
Bandage, suspensory	Large size	1 per 10 crew	1 per 10 crew	Nil
Bandage, triangular	Calico, with two sides about 90cm and a base about 127cm	4 per 10 crew	4 per 10 crew	4 per 10 crew

Equipment category	Specification	A	B	C
Bandage, zinc oxide	Zinc oxide plaster, waterproof, on a spool: 2.5cm x 5m 7.5cm x 5m	1 of each 1 of each per 10 crew	1 of each 1 of each per 10 crew	Nil
Cotton tipped buds, sterile	Pack of 2, sealed	20 per 10 crew	10 per 10 crew	Nil
Dressing strip, elastic, adhesive	Medicated dressing strip, 6cm x 1m, in a pack	2 per 10 crew	1 per 10 crew	Nil
Dressing, adhesive, plastic, waterproof	19mm x 72mm, pack of 100, sterile	2 per 10 crew	2 per 10 crew	1 per 10 crew
Dressing, hydroactive	10x10cm or similar	10 per 10 crew	2 per 10 crew	Nil
Dressings, non-adherent	10cm x 10cm or similar, wound cover	50 per 10 crew	30 per 10 crew	Nil
Dressings, plain wound, un-medicated	Small, BPC 13 Medium, BPC 14 Large, BPC 15	5 of each 5 of each 5 of each per 10 crew	5 of each 5 of each 5 of each per 10 crew	2 of each 2 of each 5 of each per 10 crew
Gauze, absorbent	Pack containing 1 piece, size 1m x 90cm	4 per 10 crew	2 per 10 crew	Nil
Gauze, compresses, sterile	Pack containing 5 pads, size 7.5cm x 7.5cm	20 per 10 crew	5 per 10 crew	2 per 10 crew
Gauze, ribbon, absorbent, sterile	Pack containing ribbon, size 2.5cm x 2.5m	1 per 10 crew	1 per 10 crew	Nil
Gloves, disposable	Polyethylene or latex, large or extra large	40 per 10 crew	10 per 10 crew	5 per 10 crew
Skin adhesive	2-octyl cyanoacrylate liquid, 0.5mL	2 per 10 crew	2 per 10 crew	Nil
Suture kit, disposable, with needles	Sutures, sterile, of monofilament nylon or silk (except 3), swaged to a 26mm, or 40mm half circle needle with a cutting edge. (sizes approximate) Each needle and suture to be in a sealed pack suture, non-absorbable, 26mm half circle needle suture, non-absorbable, 40mm half circle needle suture, absorbable, catgut, 40mm half circle needle	 3 of each 3 of each 3 of each per 10 crew	 1 of each 1 of each 1 of each per 10 crew	Nil

Equipment category	Specification	A	B	C
Suture strips, sterile, adhesive	75mm adhesive suture strips	20 per 10 crew	20 per 10 crew	4 per 10 crew
Swabs, alcohol impregnated	Pack of 100	1 per 10 crew	1 per 10 crew	Nil
Talc	Closable container, 100g of talc dusting powder, BP or similar	1 per 10 crew	Nil	Nil
Towel kit for treating burn victims	Towels, assorted, non-adhering, non-linting, in sachets ready for hydrating with normal saline, in a portable kit. Each kit should contain at least: 2 towels - body dressing size 2 towels - leg dressing size 2 towels - arms dressing size 2 towels - hand dressing size 1 towel - face mask dressing 6 x 500mL bottles/sachets normal saline irrigation 3 crepe bandages, light 10cm width 2 rolls adhesive tape, 1 x scissors, s/b stainless steel, 12cm.	1 per 10 crew	Nil	Nil
3 Instruments				
Bottle, eye wash, for irrigation	Alternative to eye spud	1 per 10 crew	1 per 10 crew	Nil
Box, instrument, stainless steel, with lid	For forceps, scissors and thermometers	1 per 10 crew	1 per 10 crew	Nil
Forceps, dissecting	Stainless steel, 12.5cm	1 per 10 crew	1 per 10 crew	Nil
Forceps, epilation (tweezers)	Oblique ends	1 per 10 crew	1 per 10 crew	Nil
Forceps, needle	(for holding needles for suturing)	1 per 10 crew	Nil	Nil
Forceps, packing	Stainless Steel	1 per 10 crew	Nil	Nil
Forceps, sinus	Stainless Steel, 12.5cm	1 per 10 crew	Nil	Nil

Equipment category	Specification	A	B	C
Forceps, Spencer Wells (Haemostatic clamps)	Stainless Steel, 12.5cm	3 per 10 crew	3 per 10 crew	Nil
Razors, disposable		50 per 10 crew	10 per 10 crew	3 per 10 crew
Scalpels, disposable, sterile	Straight, size 23	20 per 10 crew	6 per 10 crew	Nil
Scissors, surgical	Stainless Steel, about 18cm, one blade sharp pointed and the other round ended	1 per 10 crew	1 per 10 crew	Nil
Scissors, surgical	Stainless Steel, about 12.5cm, both blades sharp pointed	1 per 10 crew	1 per 10 crew	1 per 10 crew
Shears, trauma	For cutting away clothing and PPE from a patient.	1 per 10 crew	1 per 10 crew	Nil
Spud, eye, rubber	Alternative to eyewash bottle	2 per 10 crew	2 per 10 crew	Nil
Splinter probes, sterile, disposable		15 per 10 crew	10 per 10 crew	Nil
4 Examination and monitoring				
Pulse Oximeter	To meet applicable medical device standard as defined in the <i>Therapeutic Goods Act 1989</i> .	1 per vessel	1 per vessel	Nil
Charts, temperature	four hourly	1 pad	1 pad	Nil
Container, specimen, for blood and urine testing	Strong, transparent, sterilisable plastic or glass, size 50mL	2 per 10 crew	Nil	Nil
Cup, sputum with cover	Wax paper or plastic, disposable	20 per 10 crew	20 per 10 crew	Nil
Jars, specimen	Strong glass or plastic, with airtight lid, with blank labels, size 50mL	10 per 10 crew	5 per 10 crew	Nil
Labels	Plain, self-adhesive	10 per 10 crew	5 per 10 crew	Nil
Reports, medical evaluation		1 pad	1 pad	Nil
Sphygmomanometer (blood pressure set)	Preferably automatic	1 per vessel	Nil	Nil
Stethoscope		1 per vessel	Nil	Nil

Equipment category	Specification	A	B	C
Strips, reactive, for urine analysis	In manufacturers container, with instructions. Pack of 100 strips.	1 per 10 crew	1 per 10 crew	Nil
Thermometer, standard medical	Digital if possible	2 per 10 crew	2 per 10 crew	Nil
Tongue depressors, disposable		100 per 10 crew	20 per 10 crew	Nil
Torch, penlight	Pencil or other torch suitable for examining eyes.	2 per 10 crew	2 per 10 crew	Nil
5 Equipment for injection, perfusion puncture and catheterization				
Catheter, rectal infusion	Size 26 or 28, French gauge	6 (MFAG)	Nil	Nil
Catheter, sterile	Foley type, 16 gauge, with 5mL balloon (short/ medium term use in adults)	1 per 10 crew	Nil	Nil
Catheter, sterile	Nelaton or Jacques type, 16 gauge (with no balloon)	1 per 10 crew	Nil	Nil
Infusion equipment, intravenous	Cannula, (size 1.2mm)	10 per 10 crew	10 per 10 crew	Nil
Infusion equipment, intravenous	Intravenous administration set, with disposable infuser filters.	5 10 (MFAG)	5 10 (MFAG)	Nil
Equipment for injection, disposable	2.5mL syringe/0.8mm (21 gauge) 4cm needle	40 per 10 crew	20 per 10 crew	Nil
Equipment for injection, disposable	5mL syringe/0.8mm (21 gauge) 4cm needle	40 per 10 crew	Nil	Nil
Equipment for injection, disposable	10mL syringe/0.8mm (21 gauge) 4cm needle	20 per 10 crew	Nil	Nil
Equipment for injection, disposable	Hypodermic subcutaneous needle, Luer connection, 16 x 0.5mm, sterile, disposable	20 per 10 crew	Nil	Nil
Equipment for injection, disposable	Hypodermic subcutaneous needle, Luer connection, 40 x 0.8mm, sterile, disposable	20 per 10 crew	Nil	Nil
Equipment for injection, disposable	Needles, blunt "drawing up" type (19 gauge)	20 per 10 crew	Nil	Nil
Equipment for injection, disposable (additional for vessels carrying dangerous cargoes)	2.5mL syringe/0.8mm (21 gauge) 4cm needle 5mL syringe/0.8mm (21 gauge) 4cm needle	60 (MFAG) 50 (MFAG)	30 (MFAG) 10 (MFAG)	Nil

Equipment category	Specification	A	B	C
6 General medical equipment				
Aluminium foil blanket	Aluminium foil blanket (recommended only)	1 per 10 crew	1 per 10 crew	Nil
Bags for records	Approximate size 30cm x 50cm, to hold medivac records, dirty bandages, etc.	6 per 10 crew	2 per 10 crew	1 per 10 crew
Bags, mortuary	Body bag - Large size, heavy duty opaque plastic, with a zip closure on the long side, designed to store a dead person in a refrigerator for up to 14 days or in a cool place for up to 5 days.	1 (maximum of 4)	1 per 10 crew	Nil
Bags, specimen	Strong, approx. size 15cm x 30cm, to hold specimen jars/ containers	6 per 10 crew	Nil	Nil
Bedpan	Stainless steel, or sterilisable plastic	1 per 10 crew	Nil	Nil
Bottle, hot water	rubber, with a non-burn surface or a fabric cover, size about 30 x 20cm	2 per 10 crew	1 per 10 crew	Nil
Bottle, urine, male	Glass or sterilisable plastic, graduated in mL	1 per 10 crew	Nil	Nil
Bottle, urine, female	Glass or sterilisable plastic, graduated in mL if females on board	1 per 10 crew	Nil	Nil
Box, 'sharps' disposal	For used needles and scalpels	1 per 10 crew	1 per 10 crew	Nil
Bowl, lotion	Size at least 200mm x 90mm, stainless steel or sterilisable plastic	1 per 10 crew	Nil	Nil
Brush, nail	Strong, sterilisable plastic throughout	1 per 10 crew	1 per 10 crew	Nil
Condoms	Male condoms (recommended only)	100 per 10 crew	Nil	Nil
Dish, kidney	Size 250mm, stainless steel or sterilisable plastic	2 per 10 crew	Nil	Nil
Eye bath	Sterilisable plastic	2 per 10 crew	2 per 10 crew	Nil
Eye pads	Sterile	20 per 10 crew	4 per 10 crew	Nil
Eye shade	Either eye	2 per 10 crew	1 per 10 crew	Nil
Eye wash solution	Normal saline, sterile, 30mL polyamp	20 per 10 crew	10 per 10 crew	Nil

Equipment category	Specification	A	B	C
Face masks	Disposable	12 per 10 crew	6 per 10 crew	Nil
Glass, magnifying	7.5cm diameter on handle	1 per vessel	1 per vessel	Nil
Measuring equipment	Transparent plastic measuring jug, strong, sterilisable, 750mL, graduated. Medicine measures, plastic, size 30mL to 40mL, graduated.	1 per 10 crew 6 per 10 crew	1 per 10 crew 2 per 10 crew	Nil
Pack, cold	Flexible, re-useable	2 per 10 crew	1 per 10 crew	Nil
Pins, safety	Rustproof, size 5cm or assorted, pack 12	1 per 10 crew	1 per 10 crew	1 per 10 crew
Plastic apron	Disposable (recommended only)	10 per 10 crew	5 per 10 crew	Nil
Sheeting, waterproof	Smooth, strong, non-adhesive, rubber or plastic sheeting, size 1m x 2m, or fitted sheets of similar type and size.	2 per 10 crew	1 per 10 crew	Nil
Tampons/ sanitary napkins	Small pack	4 per 10 crew	2 per 10 crew	Nil
Tissues	Soft paper, in closable container	200 per 10 crew	200 per 10 crew	Nil
Towels, paper	Paper, disposable, individual, hand size	100 per 10 crew	100 per 10 crew	Nil
7 Immobilisation & setting				
Collar for neck immobilisation	Adult size set of 3, small, medium and large, adjustable, rigid, with chin support for fractured neck.	1 per vessel	1 per vessel	1 per vessel
Splint, inflatable	Set of 6 (half leg, full leg, half arm, full arm, ankle and wrist)	1 per vessel	1 per vessel	1 per vessel
Splint, malleable, finger		1 per 10 crew	1 per 10 crew	Nil
Splint, malleable, forearm and hand		1 per 10 crew	1 per 10 crew	Nil
Splint, thigh	Thomas, adjustable or traction splint as appropriate	1 per 10 crew	1 per 10 crew	Nil
Stalls, finger	With tapes, of robust material throughout, two or more sizes	5 per 10 crew	2 per 10 crew	Nil

Equipment category	Specification	A	B	C
Other				
First aid kits	<p>Vessels must carry first aid kits to be distributed in appropriate locations on the vessel including the galley, engine room and bridge.</p> <p>The kit must include the following items to be kept in a portable waterproof container.</p> <ol style="list-style-type: none"> 1. 8 x triangular bandages (90 x 90 x 127cm base) 2. 2 x No 13 BPC sterile un-medicated dressings 3. 2 x No 14 BPC sterile un-medicated dressings 4. 1 x No 15 BPC sterile un-medicated dressings 5. 12 medium safety pins, rustproof 6. 30 assorted elastic adhesive waterproof dressings medicated BPC. Those supplied for use in the galley must be blue or other easily detectable colour. 7. 2 x sterile eye pads with attachment 8. 6 x packs each containing 5 sterile cotton balls 9. 5 pairs large or extra-large size disposable polythene or latex gloves. 10. 10 paraffin gauze dressings, BP, 10 x 10cm, in individual sterile pack 11. one pair of stainless steel scissors, about 18cm long, one blade sharp pointed, the other round ended. <p>In addition, it is essential that in other areas where injuries are possible, including workrooms, kits for immediate first aid be stored with materials such as hydrogen peroxide solution for disinfection and cleaning minor wounds, sterile pads and adhesive tape. The kits must contain eyewash materials in the engine room workshop areas and any areas where liquids or solids may splash into the eye, and burn treatments in areas where high temperature burns are likely.</p>	3 per vessel	3 per vessel	3 per vessel

Equipment category	Specification	A	B	C
Kit for protection against blood transmitted diseases (BTD kit)	<p>For all vessels trading in known malarial areas and in areas where medical facilities are limited and emergency shore based treatment may be necessary.</p> <p>To be kept in a heavy gauge polythene bag, and labelled “to be used only for the treatment of ...” (insert the name of the seafarer going ashore for emergency treatment)</p> <p>Each kit to contain the following</p> <ol style="list-style-type: none"> 1. 10 x 2.5mL syringes 2. 10 x 10mL syringes 3. 20 x 21G 0.8mm needles 4. 1 blood giving set 5. 1 blood taking set 6. pack of pre-injection site swabs 7. disposable plastic or latex gloves 2 pairs. (large size) 	per vessel	per vessel	per vessel
Publications	<p>Controlled drugs register</p> <p>Dispensary log</p> <p>International Medical Guide for Ships, 3rd Edition</p>	1 of each per vessel	1 of each per vessel	1 of each per vessel
Stretcher equipment	<p>An efficient carrying stretcher, suitable for lifting the patient horizontally and vertically.</p> <p>One stretcher to be suitable for use by helicopter winching.</p> <p>For Category A vessels, one stretcher must be suitable for use in confined space rescue.</p>	2 per vessel	1 per vessel	1 (passenger vessels only)

