MEDICAL SUPPLIES ON-BOARD AIRCRAFT

AIRWORTHINESS NOTICE

VERSION : 2.0
DATE OF IMPLEMENTATION : 07-05-2010
OFFICE OF PRIME INTEREST : AIRWORTHINESS DIRECTORATE
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A. **AUTHORITY:**

A1. This Airworthiness Notice has been issued under the authority vested in DG CAA vide rule 4 of Civil Aviation rules, 1994.

B. **PURPOSE:**

B1. The purpose of this Airworthiness Notice is to specify the requirements for placing the adequate medical supplies on aircraft.

C. **SCOPE:**

C1. This Airworthiness Notice will be applicable to all air operators.

D. **DESCRIPTION:**

D1. **DEFINITIONS:**

Nil

D2. **GENERAL:**

D2.1. Rule 246 of Civil Aviation rules 1994 requires that an aircraft registered in Pakistan shall not fly unless it is equipped with adequate medical supplies which are appropriate to the passenger carrying capacity of the aircraft, and that, these are accessible during flights.

D3. **REQUIREMENTS:**

D3.1. All aircraft shall carry, medical supplies, sufficient for the treatment of injuries and other medical emergencies to the occupants, likely to occur, in flight or in case of accident / incident.

D3.2. Different types of medical supplies should be provided as follows. First aid kit(s) for carriage on all aeroplanes, universal precaution kit(s) for carriage on all aeroplanes that require a cabin crew member, and a medical kit for carriage where the aeroplane is authorized to carry more than 100 passengers, on a sector length of more than two hours and operator shall carry the recommended medication in the first aid kit.

D3.3. First aid kit: The number of first aid kits are given in Air Navigation Order No. ANO-007-AWXX-3.0

D3.4. Universal precaution kit: For routine operations, one or two universal precaution kits should be carried on aircraft that are required to operate with at least one cabin crew member. Additional kit(s) should be made available at times of increased public health risk, such as during an outbreak of a serious communicable disease having pandemic potential. Such kits may be used to clean up any potentially infectious body contents. Such as blood, urine, vomit and faeces and to protect the cabin crew members who are assisting potentially infectious cases of suspected communicable disease.

D3.5. It is essential that the required first aid kits and universal precaution kit be distributed as evenly as practicable throughout the passenger compartment. They should be readily accessible to cabin crew, and, in view of the possible use of medical supplies outside the aircraft in an emergency situation, they should be located near an exit.

D3.6. The medical kit, when carried, should be in an appropriate, secure location.
D3.7 The medical supplies should be contained in a metal box (es) and stowed in prominent and readily accessible places in the aircraft. The box and its stowage must be plainly marked with a Red Crescent and the words "First Aid" or "Medical Aid", as the case may be painted on it in English and Urdu.

D3.8 Stringent precautions are required to ensure that the contents of the boxes are not pilfered. The boxes must, therefore, be sealed and the seal checked by a licensed AME daily before releasing the aircraft.

D3.9 It is emphasized that first aid kit is intended for emergency use only, and is supplementary to a separate kit carried by the steward for use in flight. If a separate kit is not carried, then the content of the first aid box shall be replenished as early as practicable and the first aid kit resealed.

D4. CONTENTS:

D4.1 Different factors must be taken into consideration in deciding the contents of first-aid kits, Universal precaution kits and medical kits for carriage aboard an aircraft. A list of contents which must be available in the first aid and medical kits boxes is given below:

D4.2 FIRST-AID KIT: FOR AEROPLANES / HELICOPTERS.

D4.2.1 Antiseptic swabs (10/pack)
D4.2.2 Bandage: adhesive strips
D4.2.3 Bandage: gauze 7.5 cm x 4.5 m
D4.2.4 Bandage: triangular, safety pins
D4.2.5 Dressing: burn 10 cm x 10 cm
D4.2.6 Dressing: compress, sterile 10.4 cm x 10.4 cm
D4.2.7 Tape: adhesive 2.5 cm (roll)
D4.2.8 Steri-strips (or equivalent adhesive strip)
D4.2.9 Hand cleanser or cleansing towelettes
D4.2.10 Pad with shield, or tape, for eye
D4.2.11 Scissors 10 cm
D4.2.12 Tape adhesive, surgical 1.2 cm x 4.6 m
D4.2.13 Tweezers: splinter
D4.2.14 Disposable gloves (multiple pairs)
D4.2.15 Thermometers (non-mercury)
D4.2.16 Mouth to mouth resuscitation mask with one-way valves
D4.2.17 First aid manual, current edition
D4.2.18 Incident record form

D4.3 UNIVERSAL PRECAUTION KIT.

D4.3.1 Dry powder that can convert small liquid spill into a sterile granulated gel.
D4.3.2 Germicidal disinfectant for surface cleaning.
D4.3.3 Skin wipes.
D4.3.4 Face/eye mask (separate or combined).
D4.3.5 Gloves (disposable).
D4.3.6 Protective apron.
D4.3.7 Large absorbent towel.
D4.3.8 Pick-up scoop with scraper.
D4.3.9 Bio-hazard disposal waste bag.
D4.3.10 Instructions.

D4.4 MEDICAL KIT:

D4.4.1 Equipment
D4.4.1.1 Stethoscope
D4.4.1.2 Sphygmomanometer (electronic proffered)
D4.4.1.3 Airways, oropharyngeal (3 sizes)
D4.4.1.4 Syringes (appropriate range of sizes)
D4.4.1.5 Needles (appropriate range of sizes)
D4.4.1.6 Intravenous catheters appropriate range of sizes)
D4.4.1.7 Antiseptic wipes
D4.4.1.8 Gloves (disposable)
D4.4.1.9 Needle disposable box
D4.4.1.10 Urinary catheter
D4.4.1.11 System for delivering intravenous fluids
D4.4.1.12 Venous tourniquet
D4.4.1.13 Sponge gauze
D4.4.1.14 Tape-adhesive
D4.4.1.15 Surgical mask
D4.4.1.16 Emergency tracheal catheter (or large gauge intravenous cannula)
D4.4.1.17 Umbilical cord clamp.
D4.4.1.18 Thermometer (non mercury)
D4.4.1.19 Basic life support cards
D4.4.1.20 Bag valve mask
D4.4.1.21 Flashlight and batteries

D4.5 MEDICATION:

D4.4.1 Epinephrine 1:1000
D4.4.2 Antihistamine-injectible
D4.4.3 Dextrose 50% (or equivalent)- injectable 50ml
D4.4.4 Nitroglycerine tablets, or spray
D4.4.5 Major analgesic
D4.4.6 Sedative antoconvulsant-injectable
D4.4.7 Antimetic-injectable
D4.4.8 Bronchial dilator-inhaler
D4.4.9 Atropine-injectable
D4.4.10 Adrenocortical steroid – injectable
D4.4.11 Diuretic – injectable
D4.4.12 Medication for “postpartum” bleeding
D4.4.13 Sodium chloride 0.9% (minimum 250 ml)
D4.4.14 Acetyl Salicylic acid (aspirin) for oral use
D4.4.15 Oral beta blocker
D4.4.16 If a cardiac monitor is available (with or without an AED) add to the above list.
D4.4.17 Epinephrine 1:10000 (can be a dilution of Epinephrine 1:1000

Note: The United Nations Conference for Adoption of a Single Convention on Narcotic Drugs in March 1961 adopted such a Convention, Article 32 of which contains special provisions concerning the carriage of drugs in medical kits of aircraft engaged in international flight.
D5. **CERTIFICATION:**

D5.1 The contents of each box should be checked at an interval of three months, and unserviceable items replaced. The serviceability of the contents of the box should be duly certified by a Medical Officer. Also a photocopy of list of medicines should be carried in box.

E. **EVIDENCES (ACRONYMS / RECORDS / REFERENCES):**

E1. **ACRONYMS:**

AME AIRCRAFT MAINTENANCE ENGINEER

E2. **RECORDS:**

Nil

E3. **REFERENCES:**

ICAO Article 32.
CAR-94
ANO-007-AWXX-3.0

**IMPLEMENTATION:**

This Airworthiness Notice shall be implemented with effect from 7th May, 2010 and repeals / cancels / supersedes Airworthiness Notice No. 19 issue 1, dated 3rd April 2000.

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Dated: - 26th April, 2010

(Engr Ghulam Murtaza)
Director Airworthiness
Director General,
Pakistan Civil Aviation Authority

(Engr Mugeeraw Jamal Qureshi)
General Manager Airworthiness (Regulation)
Dated: April, 2009
File No. HQCAA 2233/1/19/AW