

Is there a doctor on board?

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In-Flight Medical emergency (IME)

- Inform the cockpit, keep the communication between the cockpit and cabin (constant)
- Call (PA) for a doctor or medical staff
- Organize! -> start helping, keep communication, get kits/AED
- Assist and help the passenger and/or medical personel

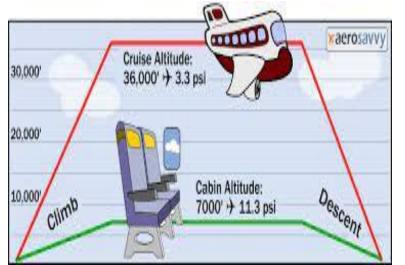
Most common medical conditions(resulting in an IME) *Aeromed.



- Syncope (33%)
- Gastrointestinal symptoms (15%)
- Respiratory symptoms (10%)
- Cardiovascular conditions (7%)
- Neulogical conditions (5%)
- Trauma (5%)

Airplane medical emergencies Promed.

- injury related or health related situations
 cuts, burns
 fainting, nose bleed stroke, MI
- MEDIF/MEDA form clearance to fly
- i.e. therapeutic oxygen portable oxygen cylinders fitted with a regulator and a mask





6000-8000 feet



Cca 2440m

List of First Aid kit contents*:

- Antiseptic swabs (10/packs)
- Bandage adhesive strips
- Bandage, gauze 7.5 cm x 4.5 cm
- Bandage Triangular 100cm folded and safety pins
- Dressing, Burn 10 cm x 10 cm
- Dressing, compress, sterile 7.5 cm x 12 cm approximately
- Dressing, gauze, sterile 10.4 cm x 10.4 cm approximately
- Adhesive tape, 2.5 cm standard roll
- Skin closure strips
- Hand cleanser or cleaning towelettes
- Pad with shield or tape for eye
- Scissors, 10 cm (if permitted by applicable regulations)
- Adhesive tape, surgical 1.2 cm x 4.6 m
- Tweezers, splinter
- Disposable gloves (several pairs)
- Thermometer (non-mercury)
- Resuscitation mask with one-way valve
- First-aid manual (an operator may decide to have one manual per aircraft in an easily accessible location)
- Incident record form
- Additional FAK (ADD KIT) over the counter medication, valve bag, basic delivery kit, eye irrigator, digital manometer, bags



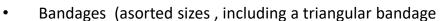


Aeromed.

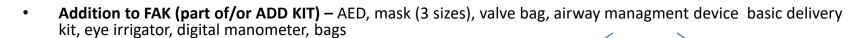


*Aerospace Medical Association (AsMA), the International Academy of Aviation and Space Medicine (IAASM) and IATA

List of First Aid kit contents*:



- Burns dressings (unspecified)
- Wound dressing (large and small)
- Adhesive dressings (assorted sizes)
- Adhesive tape
- Adhesive wound closures
- Safety pins
- Safety scissors
- Antiseptic wound cleaner
- Disposable resuscitation aid
- Disposable gloves
- Tweezers: splinter
- Thermometers (non-mercury)
- List of contents (2 languages)
- First aid handbook
- Basic life support instructions
- Medical incident report



oropharyngeal airways

nasopharyngeal airways

omed.



Over the counter medication (FAK or extra kit)



- Mild to moderate analgesic for adults and children
- Antiemetic
- Nasal decongestant
- Antacid
- Antihistaminic
- Antidiarrheal

Micaica	incolocation .					
No.	Min. Qty.	Quantities	Main active component	Group of indications		
1	5 tab.	1 x 10 tab.	Paracetamol 500mg	Analgesic		
2	5 tab.	1 x 10 tab.	Clemastin 1mg	Antiallergic		
3	5 tab.	1 x 10 tab.	Dimenhydrinat	Antiemetic		
4	5 tab.	1 x 6 cap.	Loperamid	Antidiarrhoea		
5	5 tab.	1 x 10 chew.	Algeldrat / Magnesiumhydroxid	Antiacid		
		tab.				
6	5 tab.	1 x 10 s. dose	Xylometazolin	Nasal decongestant		

^{*} NOTE: Before a medication is delivered to a passenger, the "Medication Delivery Form" shall always be filled and signed by the passenger.

Doctor Kit No: First Aid Kit No:	TURKISH AIRL	INE	s ()	×				AY FORMU				
Vary Yeth (arrival)	Doctor Kit No:			First Aid	Kit No:	0348			Yaral	anma (Injury)		
Seption of the processing of	Tarih (date):	16	/ Frohth / Kefar 7	Kalkış Yeri (de	parture):	115	,	Sıcak su yanığı / hot water burn	Kesik / d	ut		Çıkık / dislocation
Compared for posenting Consistence of on-board Drift Passenger Consistence of on-board Drift No Syntax Balance (sim / Joregin pody Syntax	Uçuş no (flight no) :	17×	1.67	Varış Yeri (ar.	rival) :	107		Sıcak cisim yanığı / hot object burn	Kanama	/ bleeding		Kırık / fracture
Boiges fooly part Diger other		2						Yabancı cisim / foreign body	Siyrik / a	abrasion		Morartı / bruising
Rata Bilgileri (Patient Information) Rullanılan Tibbi Eklomaniar, Uygulanan Tedavi ve Sonuç (Used Medical Equipment, Treatment and Result)	Uçakta doktor yardımı alındı mi?		+	Yes 🖳	Anons	Smiling Doctor	5	Çarpma / concussion	Burkulm	a / sprain		Ödem / swelling
Consider Continue Summane Consider Continue Summane Summane Consider Continue Summane Summan	(assistance of on-board Dr?)			No 🔲				Bölgesi / body part	Diğer / d	other		
Consequence		Hast	a Bilgileri (Po	atient Infor	mation)							
Doğum tarihi (birth day):	Adı-Soyadı (name- surname):		,	Cinsiyet (sex)	: M	(F Yaş (age): 60		(sphygmomanometer) (glucomete	r)	(thermometer)	(lary	
E-mail: © Tel: { }			1 1 1	Doğum tarihi	(birth day):	day / maken /	AK6			CONTRACTOR CONTRACTOR	Diğe	er (other):
Impa (signature) Impa (signa	E-mail: @)	1	Tel: ()						Süre (duration):		
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Hastanin Tibbi Öyküsü (Patient's Medical History) Daha önce bu problemi var mıydı? (had this problem before?) Ilaç tedavisi (medication) Alerji (allergies) Gebelik (currently pregnant) Belirti ve Bulgular (Symptoms & Signs) Baş ağırsı / headache Kann ağırsı / stomachache Ateş / fever Öksürük / cough Diş ağırsı / toothache Baş dönmesi / dizziness Halsizlik / faint Anksiyete / anxiety Boyun ağırsı / neck pain Ferleme / sweating Burun tikanıklığı / stuffiness Burun tikanıklığı / stuffiness Kusma / vomiting Bulantı / nausea Ağır Skalası (pain scale) Hasi Skalası (pain scale) Branş (branch): Ağır Skalası (pain scale) Ağır Skalası (pain scale) Ağır Skalası (pain scale)	İmza (signature)					The same		DEGLAN	10 mg	90		
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ağrı yok / no pain dayanılmaz ağrı / writhing agony Imza (signature): C Tarih-saat (date-time): (0 : i)		găr	1 2 3	4 5	6 days			imza (signature):		Tarih-saat (date-t	time):	10:25

Solunum Sayısı

(respiration)

Ad soyad (name surname):

Sicil No (register no):

imza (signature):

Sorumlu Pilot

(Pilot in

Command)

THY KYS Form No: FR.32.0802 Rev.00

Nabiz

(pulse)

N min.

Diğer / Other:

Kan basıncı

(blood pressure)

90/60 mmHg

ilk Yayın Tarihi/Issue Date: 21.03.2014

@ Acrones, 42

Utc.

Utc.

Yaşam Bulguları (Vital Sign)

Ateş

(body temperature)

°C

Oksijen Saturasyonu

(oxygen saturation)

95

Ad soyad (name surname):

Sicil No (register no):

imza (signature):

Kabin Amiri

(Cabin Chief)

List of Emergency Medical kit contents:

- (b) The following should be included in the emergency medical kit:
 - (1) Equipment
 - sphygmomanometer electronic recommended;
 - (ii) stethoscope;
 - (iii) syringes and needles;
 - (iv) intravenous cannulae (a sufficient supply of intravenous cannulae should be available, subject to the amount of intravenous fluids carried on board);
 - (v) tourniquet;
 - (vi) disposable gloves;
 - (vii) needle disposal box;
 - (viii) one or more urinary catheter(s), appropriate for either sex, and anaesthetic gel;
 - (ix) aspirator;
 - (x) blood glucose testing equipment;
 - (xi) scalpel;
 - (xii) pulse oximeter; and
 - (xiii) pneumothorax set.



AMC1 CAT.IDE.A.22



- Sphygmomanometer (electronic preferred)
- Stethoscope

*

- Airways, oropharyngeal (appropriate range of sizes)
- Syringes (appropriate range of sizes)
- Needles (appropriate range of sizes)
- Intravenous catheters (appropriate range of sizes)
- · System for delivering intravenous fluids
- Antiseptic wipes
- Venous tourniquet
- Sharp disposal box
- Gloves (disposable)
- Urinary catheter with sterile lubricating gel
- Sponge gauze
- Tape adhesive
- Surgical mask
- Emergency tracheal catheter
- Umbilical cord clamp
- Thermometer (non-mercury)
- Torch (flashlight) and batteries
- Bag-valve mask
- Basic life support cards

*Aerospace Medical Association (AsMA), the International Academy of Aviation and Space Medicine (IAASM) and IATA

The contents of an aircraft universal precaution kit would typically include:

- Dry powder that can convert small liquid spill into a granulated gel
- Germicidal disinfectant for surface cleaning
- Skin wipes
- Face/eye mask (separate or combined)
- Gloves (disposable)
- Impermeable full length long sleeved gown that fastens at the back
- Large absorbent towel
- Pick-up scoop with scraper
- Bio-hazard disposal waste bag
- Instructions

- Persistent coughing
- Persistent diarrhea
- Persistent vomiting
- Impaired breathing
- Skin rash
- Bruising or bleeding without previous injury
- Confusion of recent onset

Medication

AMC1 CAT.IDE.A.225

• Epinephrine 1:1,000 EASA

Antihistamine, injectable (inj.) EASA

Dextrose 50%, inj. 50 mL

Nitroglycerin tablets or spray
 EASA: i.e. glyceriltrinitrate

Anti-psychotic drug (e.g., haloperidol)

Major analgesic, inj. or oral

EASA

Sedative anticonvulsant, oral + inj./rectal

Antiemetic, inj. EASA

Bronchial dilator inhaler EASA

Atropine, inj.

Corticosteroid, inj.

EASA

Diuretic, inj. EASA

Medication for postpartum bleeding

Normal saline
 EASA: i.e. sodium chloride 0.9%

Acetylsalicylic acid for oral use

EASA

Oral beta-blocker

• Epinephrine 1:10,000 EASA: Antibiotic inj., Antispasmodic







Medication

Aeromed.

No.	Min. Qty.	Quantities	Main active component	Group of indications
1	1 x 2ml amp.	1 x 2ml amp.	Tramadol 100mg	Analgesic
2	1 x 2 tab.	1 x 10 tab.	Paracetamol 500mg	Analgesic
3	1 x 2 eff. tab.	1 x 4 eff. tab.	Acetylsalicylacid 400mg	Analgesic
			Butylscopolaminiumbromide 20	
4	1 x 1 ml amp	2 x 1 ml amp	mg	Spasmolytic
5	2 x 1 ml amp	2 x 1 ml amp	Atropinsulfat 0,5mg	Spasmolytic
6	1 x 5 ml amp	2 x 5 ml amp	Lidocain 2% (H2O free)	Antiarrhythmic
7	1 x 10 ml amp	1 x 10 ml amp	Urapidilhydrochloride 50mg	Anti-Hypertonic
8	5 x 1 ml amp	5 x 1 ml amp	Epinephrine 1 : 1000	Antihypotonic
9	1 x 2 tab.	1 x 10 tab.	Pindolol 5mg	Beta-receptor blocker
	1 x 12 9ml	1 x 12 9ml		
10	spray	spray	Glyceroltrinitrate 0,4mg	Coronary vasodilator
11	1 x 15 ml sol.	1 x 15 ml sol.	Etilefrinhydrochloride 7,5mg	Antihypotonic
	1 x 10 ml	1 x 10 ml		
12	aerosol	aerosol	Fenoterolhydrobromide 0,1mg	Antisthmatic
			Clemastin-hydrogenfumarat	
13	1 x 2ml amp	2 x 2ml amp	2mg	Antiallergic
14	1 x 2 tab.	1 x 10 tab.	Clemastin 1mg	Antiallergic
15	1 x 2ml amp	2 x 2ml amp	Metaclopramid 10mg	Antiemetic
16	2 x 1 drysub	2 x 1 drysub	Prednisolone 250mg	Corticoid
17	2 x 2ml amp	2 x 2ml amp	Promethazine 50mg	Neuroleptic
18	2 x 2ml amp	4 x 2ml amp	Furosemid sodium 20mg	Diuretic
19	1 x 5ml amp	2 x 5ml amp	Tranexamic acid 500mg/5ml	Gynecologic
20	1 x 10ml sol.	6 x 10ml sol.	Glucose 40%	Infusion solution
			Natriumlactat solution for	
21	1 x 500ml sol	1 x 500ml sol	infusion	Infusion solution
22	1 x 50ml vial	1 x 50ml vial	Water for injections	Infusion solution
22a.	1 x 1 drysub.	1 x 1 drysub.	Cefotaxime 15ml/2g	Antibiotic
				Sedative /
22b.	1 x 3 ml amp.	1 x 3 ml amp.	Midazolam 15mg/3ml	Anticonvulsant

Medical kit 1



No.	Min. Qty.	Quantities	Explanation	
			Using instructions for medicine in German/English + warn-	
Α	1 x 1 ea.	1 x 1 ea.	ing instructions	
В	1 x 1 ea.	1 x 1 ea.	Incident Record Form	
С	1 x 1 ea.	1 x 2 ea.	ACLS-Cards	
			Advanced life support instructions card (summarizing the	
D	1 x 1 ea.	1 x 1 ea.	current algorithm for ALS)	
Е	5 x 1 ea.	1 x 1 ea.	EMK Checklist	
F	1 x 1 ea.	1 x 1 ea.	FAK/EMK/Supp. Kit Opening Form	
G	10 x 1 ea.	0 x 1 ea.	Seal "yellow"	
Н	2 x 1 ea.	1 x 1 ea.	Seal "red"	
			Emergency physician protocol "Notarzteinsatzprotokoll"	
1	3 x 1 ea.	1 x 1 ea.	EPRO 4.2. (MIND2)	
J	1 x 1 ea.	1 x 1 ea.	Conversion-Table for blood glucose test (mgdL to mmol/L)	

Aspiration / Suction

No.	Min. Qty.	Quantities	Explanation
23	1 x 1 ea.	1 x 1 ea.	Aspiration catheter, Ch. 14
24	1 x 1 ea.	1 x 1 ea.	Suction pump unit (suction deice, pump, fluid container, 2 suction tips acc. to patient size, catheter adapter.)

Medical kit 2



Infusion / Injection

No.	Min. Qty.	Quantities	Explanation	
25	1 x 1 ea.	1 x 1 ea.	Syringe- Infusion-Injectionset	
1	4 x 1 ea.	4 x 1 ea.	Disposable syringe, 2ml	
Ш	2 x 1 ea.	2 x 1 ea.	Disposable syringe, 5ml	
III	2 x 1 ea.	2 x 1 ea.	Disposable syringe, 10ml	
IV	1 x 1 ea.	1 x 1 ea.	Infusionset	
V	1 x 5 ea.	1 x 5 ea.	Disposable injection tube 20G. Gr. 1 (5 pieces)	
VI	1 x 5 ea.	1 x 5 ea.	Disposable injection tube 24G. Gr. 17 (5 pieces)	
VII	2 x 1 ea.	2 x 1 ea.	Venous catheter dressing material	
VIII	2 x 1 ea.	2 x 1 ea.	Intravenous catheter with injection-valve 20G	
IX	2 x 1 ea.	2 x 1 ea.	Intravenous catheter with injection-valve 18G	
X	1 x 2 ea.	1 x 4 ea.	Combo plug red (x5)	
25a	1 x 1 ea.	2 x 1 ea.	I.V. indewelling cannula with injection port, G14, disposa- ble	
25b	1 x 1 ea.	2 x 1 ea.	I.V. indewelling cannula with injection port, G22, disposable	
			I.V. indewelling cannula with injection port, G24, disposa-	
25c	1 x 1 ea.	2 x 1 ea.	ble	
25d	1 x 1 ea.	1 x 1 ea.	MAD (Intranasal Mucosal Atomization Device)	
26	1 x 1 ea.	1 x 1 ea.	Tourniquet	
27	1 x 1 ea.	1 x 1 ea.	Ampoule opener	

Respiration / Intubation

No.	Min. Qty.	Quantities	Explanation	
28	1 x 1 ea.	1 x 1 ea.	Resuscitator	
29	1 x 1 ea.	1 x 1 ea.	Breathing mask adult (No. 5)	
30	1 x 1 ea.	1 x 1 ea.	Breathing mask child / adolescent (No. 3)	
31	1 x 1 ea.	1 x 1 ea.	Breathing mask infant (No. 1)	
32	1 x 1 ea.	1 x 1 ea.	Mask (CPR, resuscitation aid, universal for 3 sizes)	
33	1 x 3 ea.	1 x 3 ea.	Set of Orophangealtubs: 3 ea. tubes (No. 2, 3, 5)	
34	1 x 1 ea.	1 x 1 ea.	Laryngeal tube (size 2,5 – body height 125 – 150cm)	
35	1 x 1 ea.	1 x 1 ea.	Bite block for laryngeal tube size 2,5	
36	1 x 1 ea.	1 x 1 ea.	Laryngeal tube (No. 3)	
37	1 x 1 ea.	1 x 1 ea.	Laryngeal tube (No. 4)	
38	1 x 1 ea.	1 x 1 ea.	Laryngeal tube (No. 5)	
39	1 x 1 ea.	1 x 1 ea.	Bite block for Laryngeal tube size 3 to 5	
40	1 x 1 ea.	1 x 1 ea.	Syringe for laryngeal tubes	
41	1 x 1 ea.	1 x 1 ea.	Water-soluble lubricating jelly	

Medical kit 3



Diagnosis

No.	Min. Qty.	Quantities	Explanation
42	1 x 1 ea.	1 x 1 ea.	Blood pressure monitor (manually)
43	1 x 1 ea.	1 x 1 ea.	Stethoscope
44	1 x 1 ea.	1 x 1 ea.	Thermometer, digital (incl. 5 ea thermoeter covers)
45	1 x 1 ea.	1 x 1 ea.	Blood glucose monitor (Accu-Check-Aviva)
46	1 x 5 ea.	1 x 10 ea.	Test strips for blood glucose monitor (10 strips packing)
47	1 x 1 ea.	1 x 1 ea.	Diagnostic lamp

Suture Set

No.	Min. Qty.	Quantities	Explanation
48	1 x 1 ea.	1 x 1 ea.	Tweezers surgery
49	1 x 1 ea.	1 x 1 ea.	Scalpel fig. 11 disposable
50	1 x 1 ea.	1 x 1 ea.	Slit dressing 10 x 10cm
51	1 x 1 ea.	1 x 1 ea.	Surgical suture (trofilene blue monofilament 4-0, 45cm,; needle DS18)
52	1 x 1 ea.	1 x 2 ea.	Pean clamp, 16cm, straight (2 ea. packing)
53	1 x 1 ea.	1 x 1 ea.	Scissors
53a	1 x 1 ea.	1 x 1 ea.	Pneumothorax Access Set

Sundry Items

No.	Min. Qty.	Quantities	Explanation	
54	1 x 2 ea.	1 x 2 ea.	Gloves large (1 pair), disposable	
55	1 x 2 ea.	1 x 2 ea.	Gloves medium (1 pair), disposable	
56	1 x 2 ea.	1 x 2 ea.	Face mask (surgical mask)	
57	1 x 1 ea.	1 x 1 ea.	Adhesive tape, 1,25cm x 500cm (Leukosilk)	
58	1 x 5 ea.	1 x 10 ea.	Cellulose swab 4cm x 5cm	
59	1 x 5 ea.	1 x 10 ea.	Antiseptic swabs (10 ea. packing)	
60	1 x 50 ml spray	1 x 50 ml spray	Antiseptic wound treatment, alcohol-free (Octenisept)	
61	1 x 1 ea.	1 x 1 ea.	Urinary catheter, no. 12, disposable	
62	1 x 1 ea.	1 x 1 ea.	Sharps disposable container	
63	1 x 1 ea.	1 x 1 ea.	Permanent marker	
64	2 x 1 ea.	2 x 1 ea.	Tie-raps, red (to seal/mark used kits)	

26.1. First Aid Kit (FAK)





Aeromed.

26.2. Emergency Medical Kit (EMK)





26.2.1. Supplemental Kit (SUP-KIT)





No.	Min. Qty.	Quantities	Main active component	Group of indications
1	4 ea.	1 Pack	Paracetamol 500mg	Analgesic
2	4 ea.	1 Pack.	Clemastin 1mg	Antiallergic
3	4 ea.	1 Pack	Dimenhydrinat	Antiemetic
4	4 ea.	1 Pack	Loperamid	Antidiarrhoea
5	4 ea.	1 Pack	Algeldrat / Magnesiumhydroxid	Antacid
6	4 ea.	1 Pack	Neo Angin Lozenges	Sore throat
7	1 Pack (1 x	2 Pack (2 x 10	Nasal spray Ratio E 10ml	Nasal decongestant
	10ml)	ml)		_
8	4 ea.	1 Pack	Berberil	Eye drop
9	4 ea.	1 Pack	Hydrotalcid 500mg	Anazidum
10	4 ea.	1 Pack	Fenistil	Antiallergic
11	4 ea.	1 Pack	Buscopan Dragees	Spasmplytic
12	1/4 Pack	1 Pack	Wound treatment (gel)	Wound treatment
13	4 ea.	1 Pack	Otriven	Nasal decongestant
13a	1 x 1 Pack	1 Pack	Actiomedic Eve care NaCl 0.9%	Eve Irrigator

Legal aspects



AMC3 CAT.IDE.A.225 Emergency medical kit

ED Decision 2021/005/R

ACCESS TO THE EMERGENCY MEDICAL KIT

- (a) When the actual situation on board so requires, the commander should limit access to the emergency medical kit.
- (b) Drugs should be administered by medical doctors, qualified nurses, paramedics or emergency medical technicians.



- (c) Medical students, student paramedics, student emergency medical technicians or nurses aides should only administer drugs if no person mentioned in (b) is on board the flight and appropriate advice has been received.
- (d) Whenever allowed under the operator's national legislation, drugs may be administered by suitably trained persons, other than medical doctors.
- (e) Oral drugs should not be denied in medical emergency situations where no medically qualified persons are on board the flight.



Legal aspects



- what is my liability if I assist an ill traveler?
- very limited info
- no individual physician has to date been sued for assisting an ill traveler, although a few airlines have been sued as a result of an inflight medical event
- decline help? purposely harm?
- death on board?

Male, 33 YO, starts swelling, can't breathe properly, his wife reports peanut allergy?



EPIPEN (adrenaline, epinephrine)



Allergic reaction:

- Pale skin
- Difficulty in breathing/wheezing
- Swelling of lips, face, neck, tongue
- Difficulty in swallowing
- Rash
- Sudden drop in blood pressure