Health Personnel Training Program for Air Ambulances

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SUBJECTS	DURATION (ST)
MODULE 1: Flight Physiology and Flight Environment	10 hours
1. Basic Aviation Information and Terminology	
1.1. Basic Aerodynamics	
1.2. Aircraft Components	
1.3. Navigation	
1.4. Meteorology	
2. Introduction to Aviation Medicine	
3. Atmospheric physics and gas laws	
4. Hypoxia and hyperventilation	
5. Atmospheric pressure changes (Barotraumas, Decompression sickness, Hyperbaric Oxygen Therapy basic principles)	
6. acceleration	
7. Oxygen systems and cabin pressurization	
8. Systems that provide spatial orientation	
9. Spatial Disorientation (SD)	
10. Loss of Situational Awareness-SA	
11. Jet-Lag and Shift-Lag	
12. Motion Sickness	
13. cosmic radiation	
14. electromagnetic radiation	
15. thermal stresses	
16. Noise and vibration	
MODULE 2: Operational and Clinical Aviation Medicine	10 hours
1. Human Factors in Aviation	
2. Crew Resource Management	
3. Accidents: Escape, Escape and Survival	
4. Conditions Interfering with Flight	
5. Decompression Diseases and Intervention Methods	
6. Flight Hygiene	

7. fatigue and sleep	
8. Medication and flight	
9. Flight Psychology	
10. Aviation Toxicology	
11. Flight Accidents	
MODULE 3: Medical Transport	5 hours
1. Medical Transplant Operations and Development in Turkey and the World	
2. Air Ambulance Organizations, Related Organizations and Legislation	
3. Orientation to Aviation and Aircraft	
4. Around Aircraft and Flight Safety	
5. Mass Accidents/Disasters and Search and Rescue Operations	
MODULE 4: Basic Flight Operations Information	5 hours
7. Communications and Basic Flight Operations Management	
8. Pre- and Post-Transplant Briefing	
9. Air Ambulance Patient Transport Environment	
10. Medical Devices, Consumables and Medicines Used in Air Ambulance	
11. Preparing the Patient for Transport and Packing	
12. Form and Documentation Used in Air Ambulance Operations	
13. Receiving and Delivering the Patient	
14. Contaminated and Infected Patient Management and Control	
MODULE 5: Management of Special Patient Groups in the Flight Environment	5 hours
24. Management of the Trauma Patient in the Flight Environment	
24.1.Head Trauma	
24.2. Chest Trauma	
24.3.Abdominal Trauma	
24.4.Spinal Trauma	
24.5. Limb Trauma	
24.6.Trauma in Special Patient Groups (Pregnant, Geriatric and Pediatric)	
25. Burn Patient Management in the Flight Environment	
26. Management of the Obese and Bariatric Patient in the Flight	

Environment	
27. Management of the Newborn in the Flight Environment	
28. Management of Risky Pregnancy and Birth Tendency Patient in Flight Environment	

MODULE 6: Flight and Aircraft Skills Practices	5 hours
1. Introducing the Flight Operations Center and Creating Air Ambulance Flight Plans, Observing the Processes	
2. Introduction of Air Ambulances	
2.1. cockpit	
2.2. Medical Kit	
2.3. Introduction of Medical Devices Used from Aircraft	
2.3.1. Oxygen Tubes and Regulator,	
2.3.2.Adult Mechanical Ventilator,	
2.3.3.Monitor, Defibrator	
2.3.4.Infusion Pump	
2.3.5.Perfusion Pump	
2.3.6. Incubator and Newborn Ventilator	
3. Creation of a Safe Operating Environment in and Around the Aircraft	
4. Patient Safe Embarkation Procedures in Aircraft	
5. Introduction and Use of Air Ambulance Communication (Intercom)	