



TECHMEDIC



Telemedicine
Services in
Aviation

Management of InFlight Medical Emergencies

The International Air Transport Association (IATA) released an industry traffic forecast showing that airlines expect to welcome some 3.6 billion passengers in 2016.

In-flight medical incidents during commercial air travel are common yet poorly understood and studied phenomena. The cramped quarters of an aircraft cabin environment and limited available resources make responding to such events fraught with challenging clinical decisions.

It's estimated that a medical event of some sort occurs once for every 10,000 to 40,000 passengers on intercontinental flights.

Yearly many flights are diverted or unnecessary landed due to improper assessment of medical conditions. The costs for these unnecessary landings are between USD 15.000 and USD 893.000 per landing.

It is clear that even the best-trained captain, in charge of a decision to divert facing a medical event, has no sufficient medical background to make the best judgment. He will frequently rely upon the occasional presence of a medical person flying as a passenger. This is certainly not a consistent solution.

Many airlines rely on the kindness of strangers by paging for a medical volunteer to assist when a medical situation occurs on board. While a qualified medical volunteer may be helpful, there are a number of considerations, which make relying solely on him or her a risk for the carrier.

A medical professional doesn't board a flight expecting to work - he is a passenger first.

In addition, he may not have the skills necessary to address the situation presented to him.

A background in medicine does not translate to the proper training needed to deal with medical situations in flight.

How does the Dyna-Vision solution help?

Dyna-Vision is an extremely light weight device, which can monitor the passengers Electrocardiogram, Heart Rate, Oxygen level, Respiration rate, temperature and blood pressure. It only weighs 250 grams, which significantly reduces the cost of carrying it on every flight all year long compared to any other onboard monitoring solution.

The Dyna-Vision device and sensor are very easy to use. Just place the single use adhesive sensor on the chest, the oxygen sensor on the finger and switch on the device.

The device transmits the vital signs in realtime via the onboard Wi-Fi system or satellite connection to a 24/7/365 Medical Call Center on the ground where they are immediately and continuously analyzed by specialized physicians. The flight crew remains in direct contact with the medical team for receiving their professional advice.

An airplane will only be diverted or landed if absolutely necessary, which results in a tremendous cost saving on yearly basis.



Simple - Fast - Affordable

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