

in the name of God

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Telemedicine as the Best Solution for Cardiac Emergencies in Air Travels



- Introduction



Introduction

- In-flight medical and cardiac emergencies always occur
- air travels are increasing every year.



Introduction

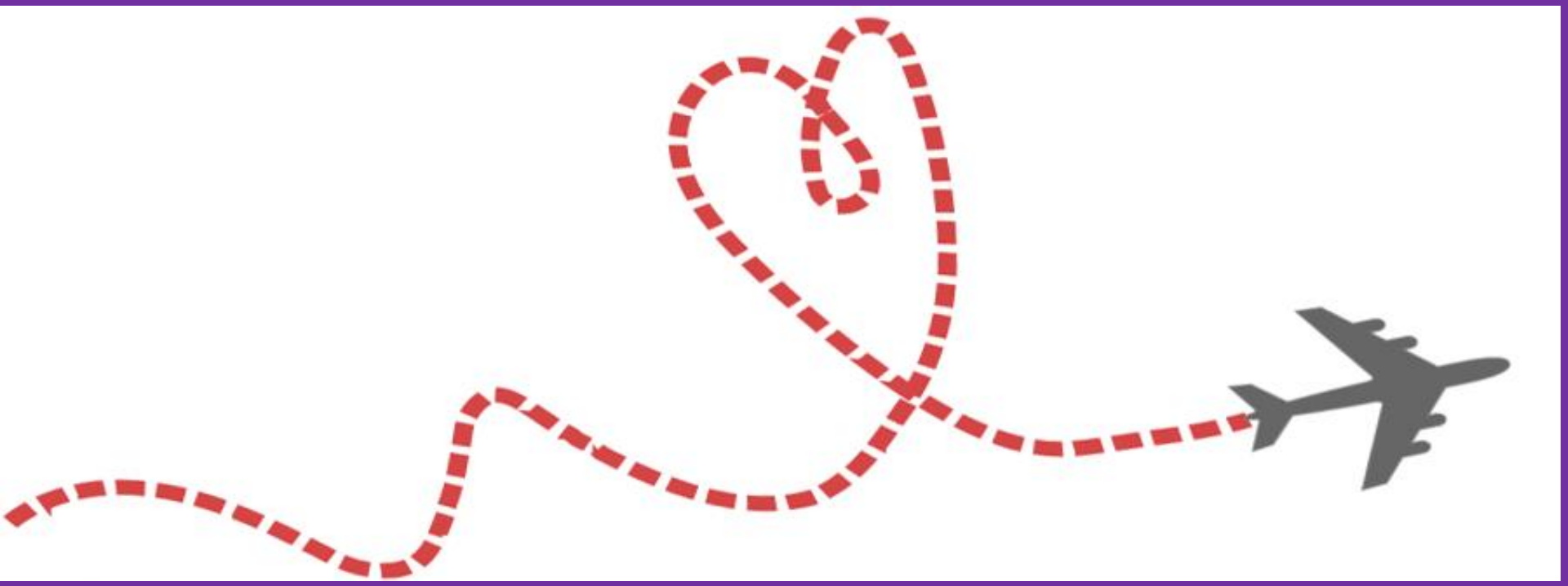
- Not so many researches about problem,
- Limited experience of physicians,
- Lack of formal medical education.



Introduction

- Airlines do not record Cardiac emergencies as a standard format.
- Telemedicine is considered to provide health care at a distance.



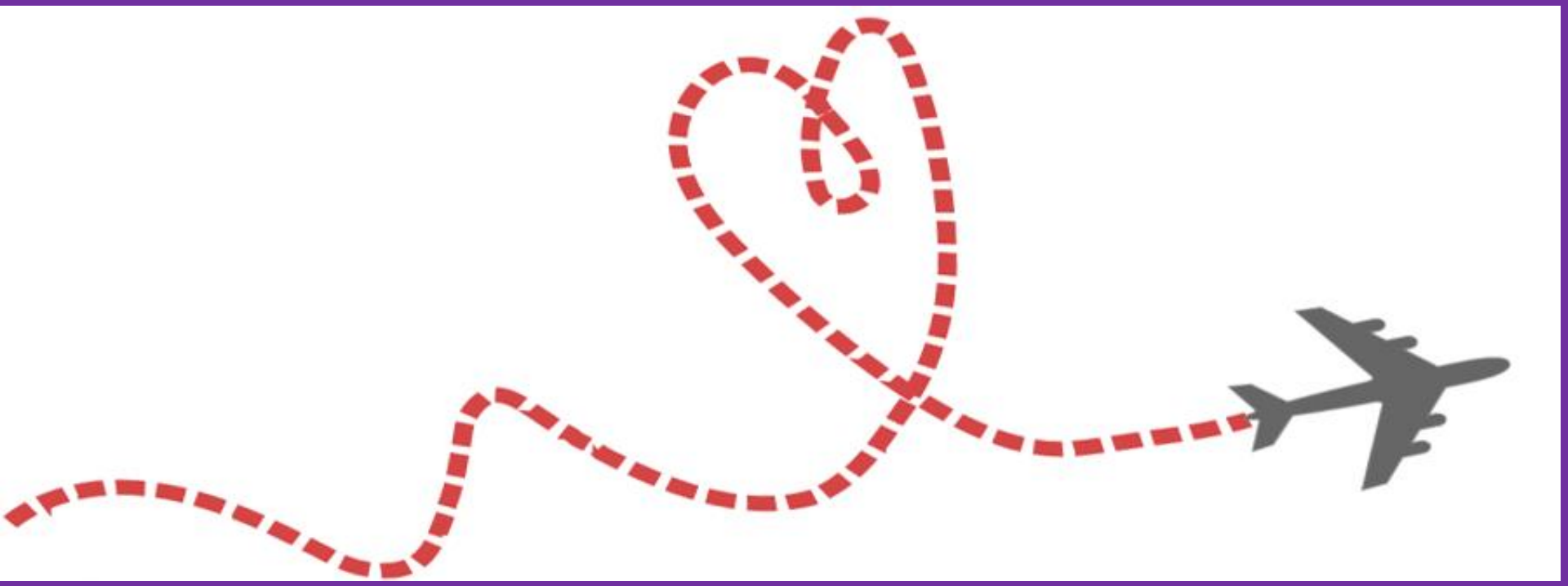




Methods

- systematic review,
- pubmed articles,
- from 2000-2015.







Results

- Every year in America,
- 17000 in-flight medical emergencies.



Results

- (Siverman 2009,
- Muhm 2007,
- Gallagher 2004,
- and Hackett 2001):

- There are potential stresses in air travel.



Results

- Commercial airplanes are pressurized
- If pressure reduction happens, there would be a serious problem;

- hypoxia.



Results

- Cardiac and respiratory patients (symptomatic coronary disease, uncompensated heart failure, heart congenital and valvular disorders, sickle cell anemia, and sleep apnea) will suffer from lack of oxygen (Hypoxia).



Results

- Chest pain and cardiovascular emergencies
- have diverted flights in most instances (Chandra et al, 2013).



Discussion and conclusion

- **Telemedicine**
  - seems the best solution for the problem,
  - especially with supervision of an aerospace medicine specialist.



Discussion and conclusion

- Suggestions proposed by aerospace medicine:

- Travelers screening,
- Educational programs for travelers,
- Education of aircrew,
- Founding a central standard recording system,
- Designing proper medical kits for airplanes,
- Considering telemedicine as the basic necessity for emergencies (especially cardiac) in air travel.



Thanks

