



THE 12th INTERNATIONAL SCIENTIFIC CONFERENCE
THE SOCIETY FOR ACUTE MEDICINE

Bournemouth International Centre
20 – 21 September 2018

Human Factors & Lessons from the Aviation Industry

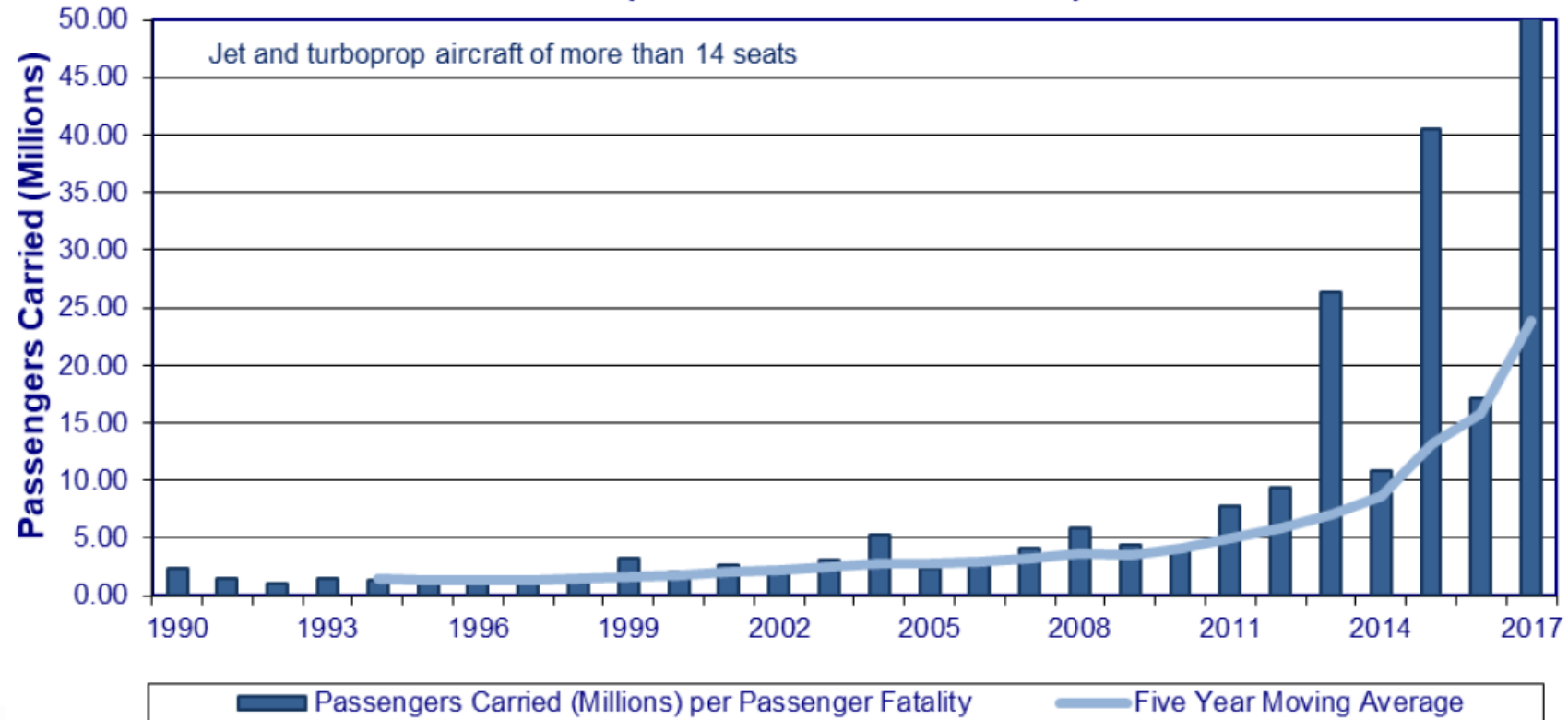
Captain Chris Guy

Why look to aviation?

- 40 + years of 'human factors' training, e.g;
 - Working in hierarchies
 - Balancing risk
 - Working at the 'front line'
 - Managing overload
 - Threat and Error management

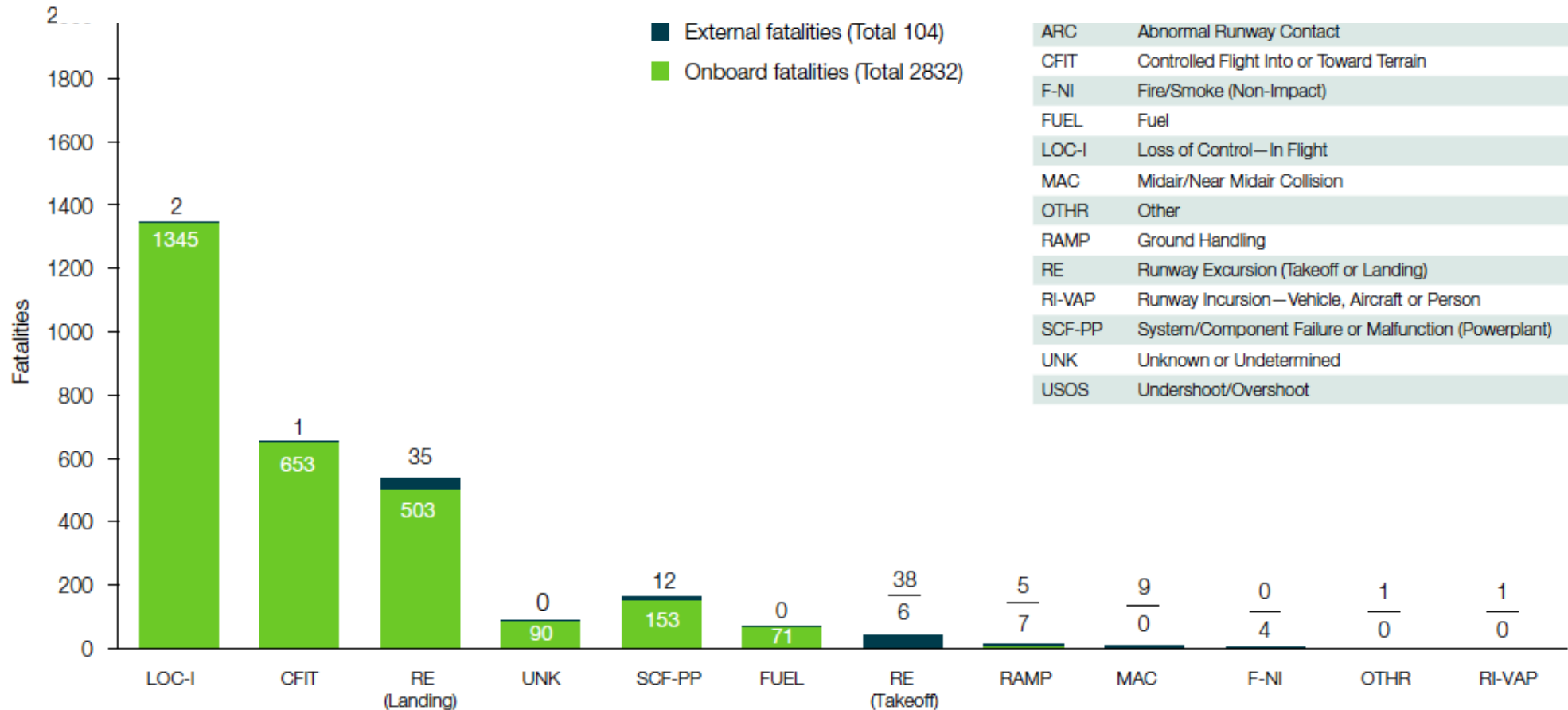
Nervous Flyer?

**Passengers Carried (Millions) per Passenger Fatality
on Revenue Passenger Flights
(Excludes Acts of Violence)**

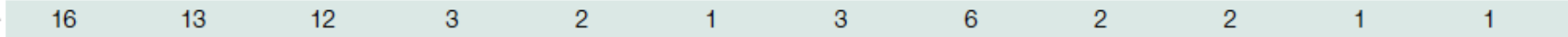


Fatalities by CICTT Aviation Occurrence Categories

Fatal Accidents | Worldwide Commercial Jet Fleet | 2007 through 2016



Number of fatal accidents (62 total)





TUI Pilot Skills List

Planning & Briefing	Situational Awareness	Professional Style
<ul style="list-style-type: none">Shares ThinkingEngaging & InteractivePractical & Relevant PlanHighlights Risks & ThreatsReviews Aircraft SetupBuilds Crew SA	<ul style="list-style-type: none">Shares Contingency PlansAnticipates Risks & ThreatsStays Ahead & Updates PlansMonitors & Reviews Aircraft StateFuel, Terrain & Time AwareRecognises Reduced SA	<ul style="list-style-type: none">Culturally AwareOffers & Accepts FeedbackAspires To High PerformanceUpholds Company Customer ValuesIdentifies & Resolves ConflictsConscientious & Enthusiastic
Communication	Workload Management	Flight Path Management
<ul style="list-style-type: none">Effective TimingConfirms UnderstandingDemonstrates Active ListeningClear, Concise & Accurate LanguageEffective Non Verbal BehaviourAppropriately Assertive	<ul style="list-style-type: none">Manages ErrorsRecognises High WorkloadManages Distractions & OverloadPlans, Prioritises & Allocates TasksManages Time EfficientlyAware Of Crew Capacity	<ul style="list-style-type: none">Actively MonitorsAccurate & Smooth ControlDeviations Identified & CorrectedEfficient Use and Level Of AutomationSafe, Efficient & ComfortableManual Flight Proficiency
Leadership & Teamwork	Problem Solving & Decisions	Applied Knowledge
<ul style="list-style-type: none">Flexible & RespectfulAssigns Tasks & SupportsAdmits Mistakes & DoubtsEncourages Input & FeedbackCorrect Authority GradientIntervenes Appropriately	<ul style="list-style-type: none">Sets PrioritiesGathers Required InformationIdentifies Problems & ImplicationsUses Judgement & Improvises For SafetyEmploys Decision Making StructureEvaluates & Adapts Decisions	<ul style="list-style-type: none">Complies with RegulationsOptimum Use of Aircraft SystemsApplies Procedures In A Timely MannerAdheres to Normal & Non Normal ProceduresOperational & Commercial AwarenessEffective Use Of Checklists

Summary / Discussion:

- Does it work?
- Can Medicine learn like Aviation?