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2017

The Germanwings Task Force Mental Health Plan of Action: A Critical Analysis

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DISCLOSURE

No financial interest nor affiliation with : Pilot Unions Transporters Ruling Authorities Pharmaceutical companies Adhesions to : Canadian Medical Ethics, Regulations & Best Practice norms





Objectives :

- 1. Identify safety issues in EU present context
- 2. Identify weakness & strength in EASA Task Force Action Plans
- 3. Alternative options



- 1. Present context
- 2. The 6 Recommendations and the Task Force challenges
- 3. Alternative solutions
- 4. Conclusion



- 1. Present context
 - Operations in EU
 - Health professionals:
 - . General Practitioner & AME
 - . Psychiatrist
 - . Aviation Psychiatrist
 - . Psychologist
 - . Aviation Psychologist
- 2. The 6 Recommendations and challenges
- 3. Alternative solutions
- 4. Conclusion



PREVALENCE IN PILOTS: ALL ILLNESSES

In order to preserve flying licence :

- 46% avoid treatment
- 32% failed to report to FAA
- 21% concealed they took pills
 Non-respondents fear for their ID.
 (AVWeb Survey) http://www.avweb.com/news/aeromed/181888-1.html?redirected=1
 Airline pilots responders to an online survey :
- 12.6 % are depressed (n=1,848)
- 4.1 % reported having suicidal thoughts (n=75)

EU Present Context: Operations

Multiple controversies about efficacy & safety measures:

• Two-in-the-cockpit:

At all times in many airlines, w/o camera

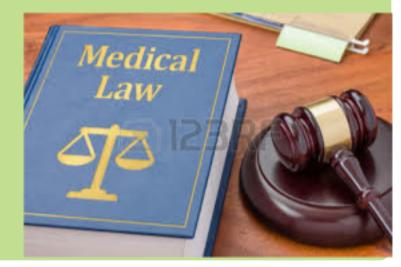
- Peer Support Programme (PSP): Still rare or dysfunctional
- Random toxicology screening: Widely practiced elsewhere, debated +++
- Mental Health exam: "Allowed" when needed, not required



EU Present Context: Operations

Since Jan. 1, 1999: Eurozone

- Free circulations of goods, service, consumers
- Pilots access to a large market of AME
 EASA core regulations locally "adapted" : Member States are sovereign; inconsistency in :
- Tolerance to unfitness
- Confidentiality
- Reporting criteria



EU Present Context: All Physicians

A disparate quality of :

- Training: 40% exposed to psychiatry
- No training in aviation medicine
- (Optional) Continuing Medical Education
- Practice norms
- Regulation

... across countries and within the same State

EU Present Context: General Practitioners

- Uncomfortable with psychiatry
- Low rate of detection
- Approach : Symptomatic > diagnostic
 - (Goldberg, the WHO study, 1996; CMPA, Canada, 2002; Ratcliffe, 1999; Coyne 1995; Lin, 2001; etc.)

General Practitioner AME :

- Audited on compliance, practice facility, processes
- No audit on competence
- Isolated practice, no network
- Min 10 pilots/y/AME

EU Present Context: Psychiatrists

Ideal profile of an Aviation Psychiatrist :

- 1. Occupational psychiatry
- 2. Liaison-Consultation
- 3. Transcultural psychiatry
- 4. Toxicology, Addiction
- 5. Additional assets:
 - Flying licence



• Forensic, medico-legal experience

European Med Schools Curriculum are missing these !

EU Present Context : Psychologists

(Traditional) Clinical Psychologists:

- Treat below normal states
- Restore basic self with treatments
- **Occupational (Aviation) Psychologists:**
 - Operate above normal states
 - Facilitate new aptitude acquisition
 - Non clinical psychometricians:
 - test personality
 - Self-report questionnaires

Gold standard : face to face evaluation



How are you ?





EU Present Context: Psychologists

European Committee for Standardization of Psychology (May 13, 2016) :

- Unstandardized training
- No regulation of the use of the title
- Strong risk of para psychology



- Practice controlled in only 17/28 countries;
- In others, there is no registration, accreditation, nor relevant jurisdiction

Aviation Psychology: not recognised by EASA

http://ec.europa.eu/DocsRoom/documents/16683?locale=en

- 1. Present context
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EASA Final Recommendations : Implementation Phase

- 1 Two persons in cockpit
- 2 Psychological evaluation
- 3 AME: Oversight & more psychiatric proficiency
- 4 Random Drug and Alcohol testing
- 5 Data repository
- 6 Peer Support Programme & reporting systems

No single action is efficient

http://ec.europa.eu/transport/sites/transport/files/modes/air/news/doc/2015-07-17-germanwings-report/germanwings-task-force-final-report.pdf

EASA Final Recommendations

Foundation of recommendations non negotiable States apply the plan of action their way EASA only decides on what should be done, not rules

- Is inspired by IATA, FAA, etc.
- ? Accounts for input from affected parties & experts
- Monitors impact
- Will provide Guidance Materials, Operation
 Directives

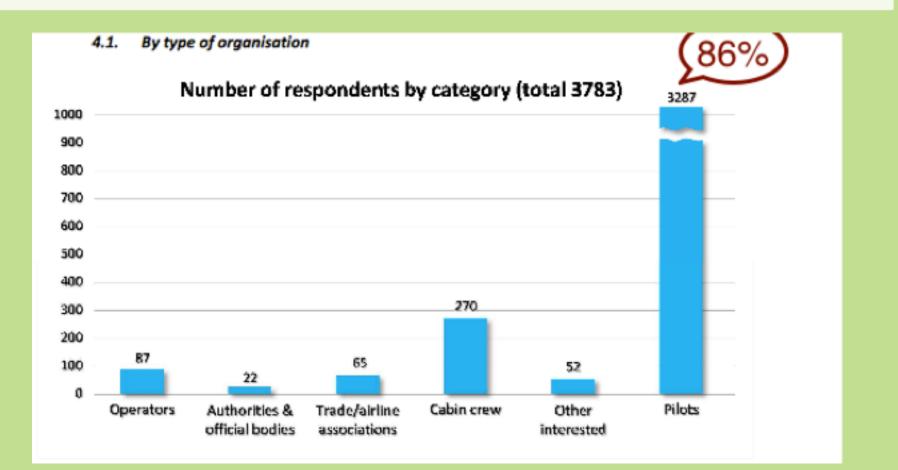
Timeline From The Crash, March 24, 2015



- March 30, 2015: EASA Task Force on mental health & security, related or not to the crash
- July 2015: 6 Recommendations, 5 on mental health
- Online survey & opinions from EASA advisors, stakeholders, experts, the public
- Dec 2015 and 15-16 June 2016: Medical Fitness Workshops, Cologne: 150 experts (authorities; airlines; pilot & CC associations; AMEs; etc.)

No psychiatrist advisor at any level

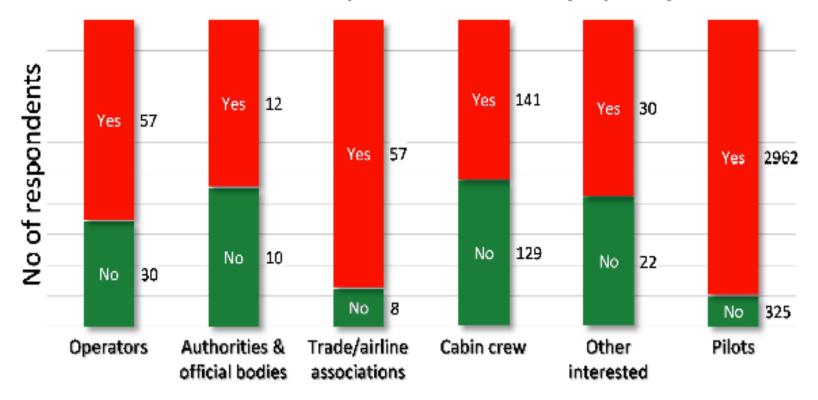
Public Survey : 2 Persons In Cockpit



Jan-march 2016: https://www.easa.europa.eu/system/files/dfu/Summary%20of%20survey%20results%20SIB%202015-04.pdf

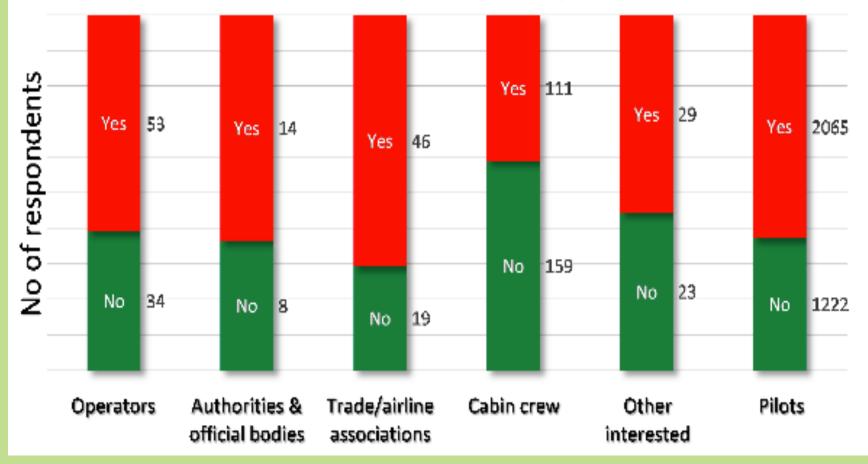
Public Survey : Additional Risks ?

Any additional risks identified of stemming from the introduction of 2-persons-in-the-cockpit principle?



Public Survey : Other Measures ?

There are other equivalent mitigating measures



Recommendation #1: 2 Persons In Cockpit

National authorities to ensure that CAT operators :

- Design own procedures in Operation Manual
- Define training, role of CC
- Assess risk:
 - . Distraction
 - . New safety risks
- Report yearly

To reassess in 1 y



Recommendation # 2: Psychological Exam

EASA still wants pilots to be to examined :

- 1. At Flight Schools, before training, by psychologists
- 2. At SMS : by "experts"
- 3. Operators :
 - Within 24 months > line flying
 - > starting service
- 4. Professional authorities : to regulate
- 5. Member States : to validate Av. Psych. expertise

No mandatory mental fitness assessment after trauma

Recommendation # 2: Psychological Exam Challenges

- Task definition : Clinical or Aviation psychologist ?
 - Stand alone vs team up with AME, Chief pilot, HR, HF, PSP ?
- Examine a normal person ?
- **Artificial separation of nested exams:**



- Psychological : psycho-socio-culturaι
- Psychiatry : Bio-psycho-socio-cultural

Synchronize exam with illness cycles ?

Recommendation #3: Oversight Of AME

Audition and inspection yearly at following levels : AME level :

- Full proficiency in knowledge, *Clinical skills,* performance
- AME network with Peer Support Groups

National Authorities level, audits to switch focus:

- To approve AME's training schools
- To enhance Licensing authorities and Aeromedical centres medical competence

Recommendation # 3 : Oversight Of AME Challenges

- Infrastructure in small countries
- "Speed training" for proficiency acquisition
- AME's unfair responsibility
- Standardization of norms, culture, identity
- Reporting immunity for AME
- Shortage of civil aviation expertise in psychiatry



Recommendation # 4: Random Drug & Alcohol Testing

Operator's SMS to update a yearly policy for:

- Random testing campaigns
- Random testing
 - Reasonable suspicion
 - With due cause
 - Post incident-accident
 - Follow-up post rehab
 - After positive detection
- Scheduled test :
 - At initial Class 1 medical assessment
 - At employment



Recommendation # 4: Random Drug & Alcohol Testing Challenges

• Ethics:

- Discriminating individuals vs blanket policy
- Invasive (blood) tests
- Human Rights, etc.
- Breath, saliva, urine, hair, nails
- Interpretation of false + / –
- 6 M \$ in USA to catch 7-10 pilot/y
- Test on landing in another country ?
- Withdrawal ? Severe addiction ?

FLIGHT

Recommendation # 5 : Data Repository

Centralized medical data in a repository for all European pilots

- End of Medical tourism
- Modification of national rules
- Confidentiality issues
- EASA supersedes national systems

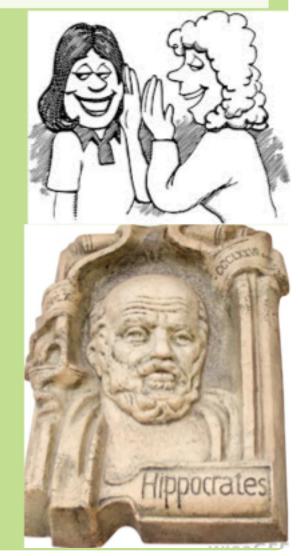
Already in place for all Quebec citizen



Look up our Facebook success

Recommendation # 5 : Data Repository Challenges

- Escalation from the European Transport Commission
 => to European Parliament
 => to Council to adopt proposed regulations
- Privacy with IT
- Loosening confidentiality criteria :
 - Removes MD's working tool
 - Challenges the Hippocrates Oath
- Medical tourism elsewhere !



Recommendation #6: Peer Support Programme

Principles: solve isolation and loneliness

- "Human interaction is natural in the cockpit"
- "Easy Pilot relationships with trusted peers"

Primary aim : return to flight deck

- Adapted to organisation context (size, maturity levels, contract types)
- Integrated within SMS
- Just culture



Recommendation # 6 : Peer Support Programme Challenges

- Joint initiative :
 - **Op + pilots + authorities**
- Flawed principles foundations
 - More trust within the flight crews ?
 - Trust can be promoted, not ordered
 - Between hierarchy / crew ?
- Peers' skills : non-insured as nonclinicians, yet handling sensitive data
 Oversight authorities may access info !?





Task Packages

	Crew	AME	PsyO	PsyA	Ор	NAA +
2/cockpit	+	+			+	+
Psy. Exam	+	+	+	?	+	+
Toxicology	+	+	+	?	+	+
PSP	+		+	?	+	
Repository	+	+				+

Psychiatrists (PsyA) are not even mentioned in this mental health management ... !?

- **1.** Present context
- 2. The 6 Recommendations and the Task Force challenges
- 3. Alternative solutions for Mental Issues
- 4. Conclusion

Existing Alternative Solutions

New ICAO Guidance Material :

- De-emphasize periodic physical medical exam
- Emphasises health promotion: prevention, destigmatization, psycho-education
- NO additional screening, medical exams nor tests
- Repository too !

2014 Oct : Process started
2017: Guidance Material available
2018, Nov 8 : Application of amendments



Proposed Alternative Solutions

- 1 Alternative career plans Mandatory insurances (~ car drivers)
- 2 Best models for training and practice :
 - Consultation-Liaison
 - Shared-care
 - Service corridor with a bank of aviation mental health clinicians

(The Who study: Goldberg, 1996).

Proposed Alternative Solutions (con't)

- **3 Traditional clinical model of a psychiatry team:**
- Psychiatric Liaison nurse
- Psychiatric Social Workers
- Clinical Psychologists
- Aviation Liaison Psychiatrist to lead
- 4 Super-specialized supra-national clinic

CLOSE THE GAP !

- **1.** Present contexts
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Conclusion

- No choice for EASA: consumers require more screening
- 18 months : very long, yet too short
 - from the 4U9525 Crash (March 24, 2015)
 - to Final Report (Sept 7, 2016)
- Screening process still very porous Reassessment of rules implementation to come

IFAAD can influence by inserting the word "psychiatrist" somewhere...