



SAFE SKIES.  
**SUSTAINABLE  
FUTURE.**



| ICAO

ICAO Approach to Risk Management in  
Mental Health  
Nairobi, Dec 2025  
Dr. Ansa Jordaan



# Global mental health in 2025

Mental health conditions are widespread, undertreated and under-resourced

## WIDESPREAD



Nearly

**1 in 7**

people globally live with  
a mental disorder

## UNDERTREATED



**71%**

of people with psychosis do not  
receive mental health services

## UNDER-RESOURCED

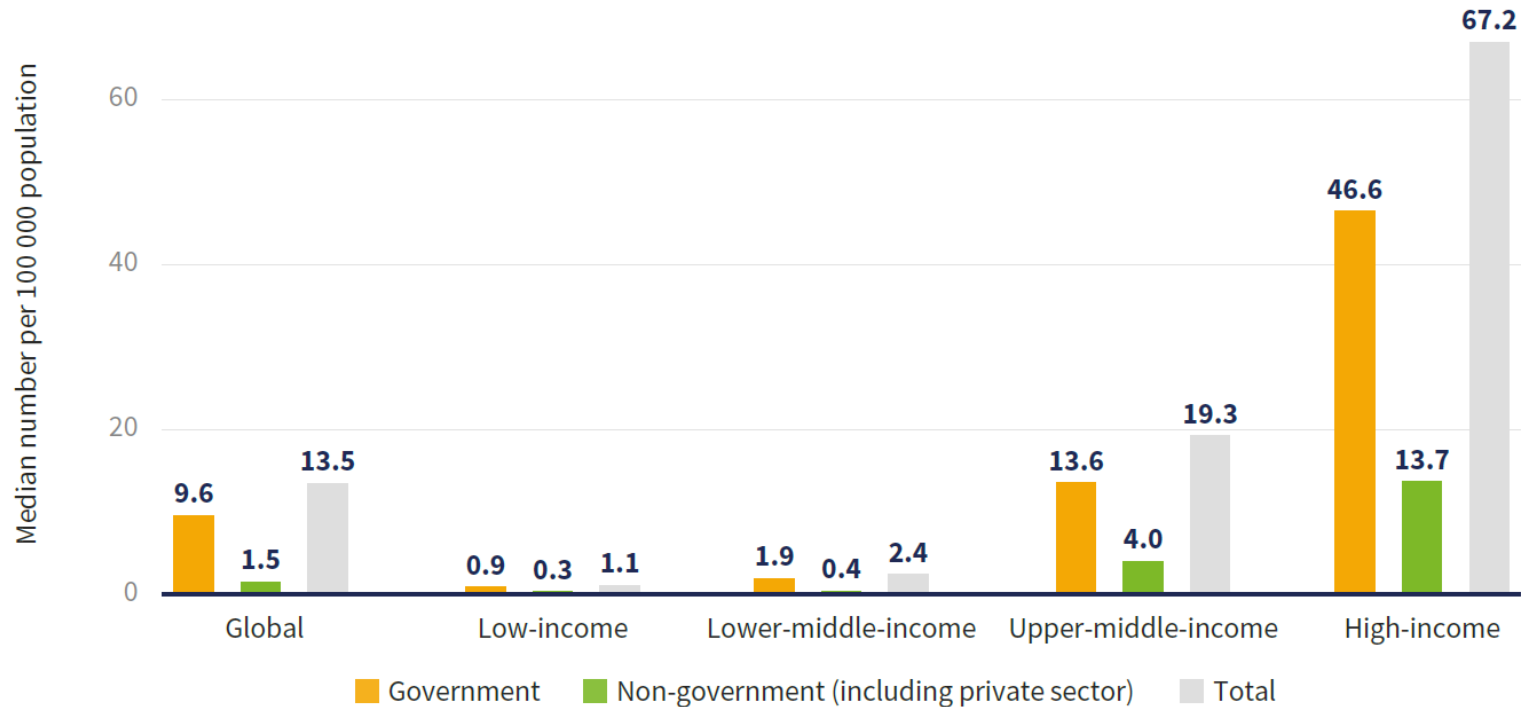


**1.4%**

of health budgets in LMICs,  
on average, go to mental health

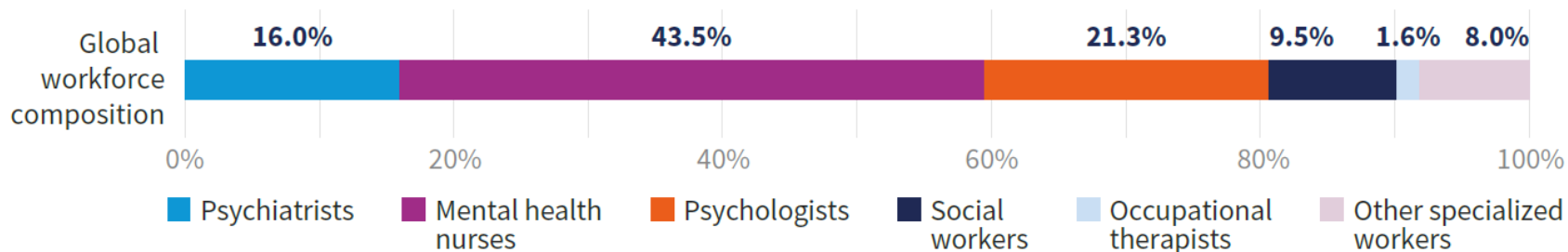
Source: IHME, 2024 (3, 4); WHO, 2025 (2).

# The specialized mental health workforce



Source: WHO, 2025 (2).

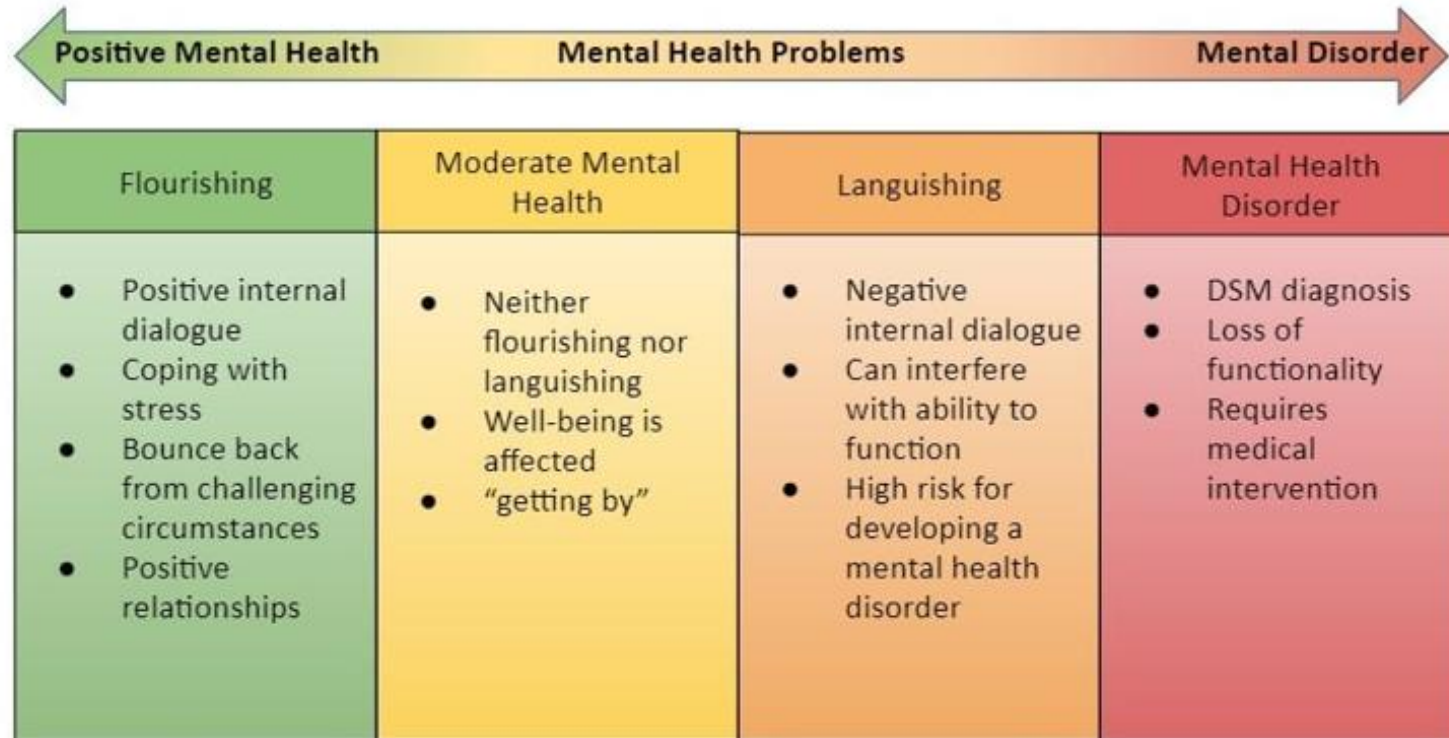
## The specialized mental health workforce



Source: WHO, 2025 (2).

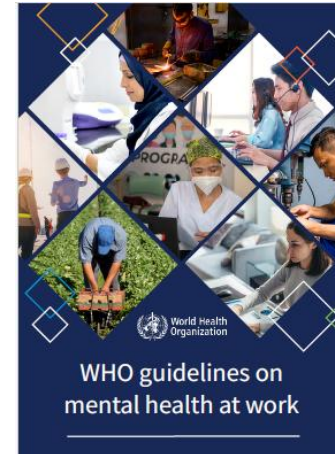
# Understanding mental health

Exists on a complex continuum, experienced differently by different persons



# Mental health and work (WHO)

- 15% of working-age adults have a mental disorder at any point in time
- Meaningful work protective for mental health: sense of accomplishment, confidence
- Negative effects of poor mental health: cognitive, behavioural, emotional, social, relational well-being & functioning, physical health, personal identity
- **Negative effects of poor mental health on work**
  - Impaired capacity to participate in work
  - Reduction in productivity and performance
  - Reduction in the ability to work safely
  - Difficulty in retaining or gaining work



# Factors affecting mental health in aviation



## Mental health challenges in aviation

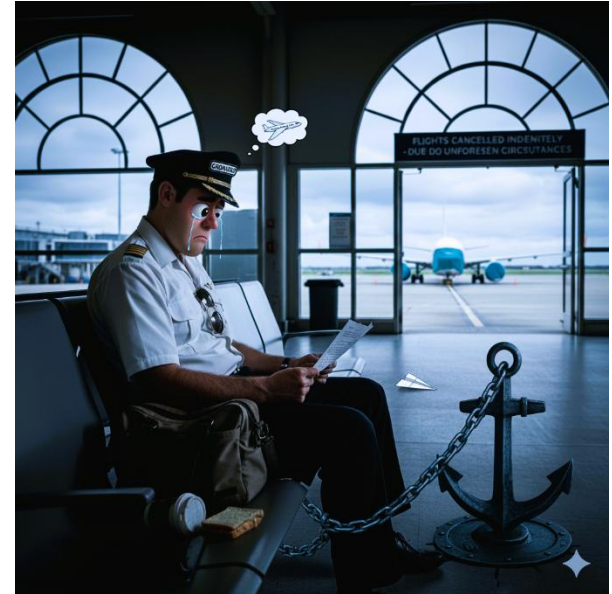
- Stigma and discrimination (perceived and real)
- Self-esteem and self-confidence
- Reluctance to seek help
- Seeking help, but declining treatment
- Obtaining treatment, but non-disclosure
- Peers hesitant to report concerns to employer
- Increasing stress and isolation
- Adverse effect on the progression of disease
- Increased risk to aviation safety





# Current snapshot of mental health in aviation

- Magnitude of mental health problems and disorders in aviation unknown
- Majority of mental disorders: depression, anxiety, alcohol and drug dependence
- Potential certification consequences
  - Additional costs – examinations & treatment
  - Grounding
  - Loss of income
  - Loss of medical certification
  - Loss of employment

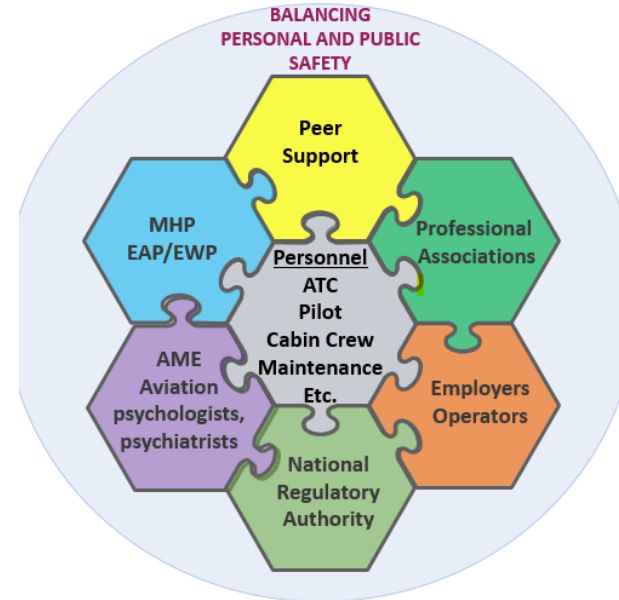


# ICAO Electronic Bulletin 2020/55

Promoting, maintaining and supporting mental health during the Covid-19 pandemic

## Responsibilities of all stakeholders

- Multi-stakeholder collaboration
- Recognize different cultural approaches
- Promote a common understanding of supportive behaviors and activities
- Provide a psycho-socially safe and supportive environment



# ICAO Electronic Bulletin 2020/55

Promoting, maintaining and supporting mental health during the Covid-19 pandemic

## Responsibilities of National Aviation Authorities

- Ensure collaboration: aviation medical examiners, healthcare professionals, peer support groups, aviation personnel
- Provide guidance and support to aviation medical examiners
- Encourage stakeholders to make available appropriate resources and tools
- Communicate on a regular basis to all stakeholders the means to maintain licensing and proficiency to enable safe performance of duties

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## Responsibilities of Industry Service Providers

- Raise awareness to leadership and management
- Offer resources such as EAP or other programs
- Inform aviation personnel of other available resources
- Facilitate access to support programs
- Educate on fitness for duty and self-care
- Encourage development and provisions of training programmes
- Ensure safety management system addresses concerns



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## Responsibilities of aviation personnel

- Practice self-care in all dimensions: nutrition, exercise, sleep, reduce stressors, healthy behaviour, interaction with a personal support network
- Seek support pro-actively to maintain well-being and encourage fellow employees to seek support as needed.

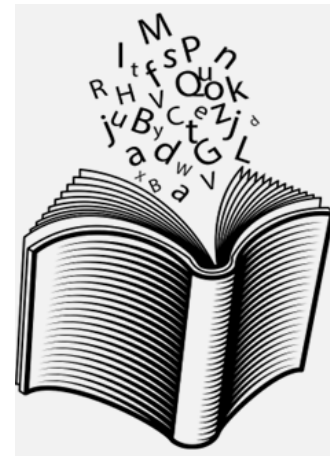


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## Responsibilities of Aviation Medical Examiners & Healthcare Professionals

- Provide a supportive environment
- Proactively discuss work-related challenges
- Refer for further appropriate support
- Update contact details to facilitate referral
- Refer to health professionals as appropriate where peer support groups are not available or where more professional support is needed.



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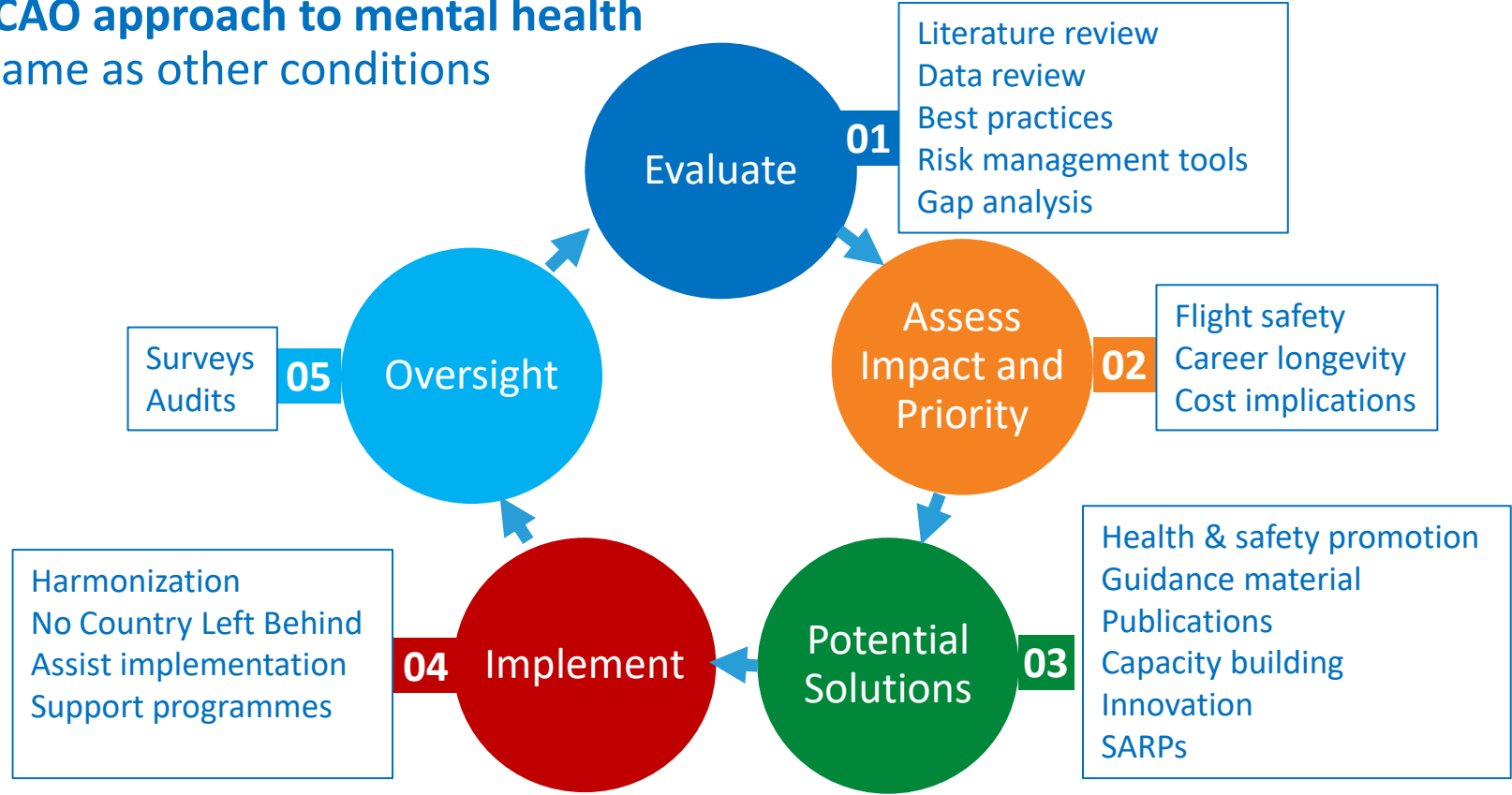
## Peer support

- [Definition](#) of peers
- [Dimensions](#) of peer support
- [Principles](#): emotionally safe, non-judgmental, confidential, independence, supervision, consideration of SMS aspects



# ICAO approach to mental health

Same as other conditions





## Risk management

Sudden & subtle incapacitation

- Literature review, incident and accident data, performance data, medical examination data, peer reports

Cognitive functioning

- Literature review, performance data, cognitive testing, peer reports

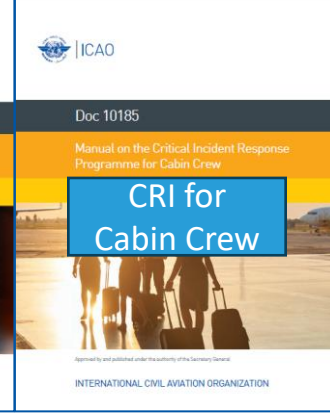
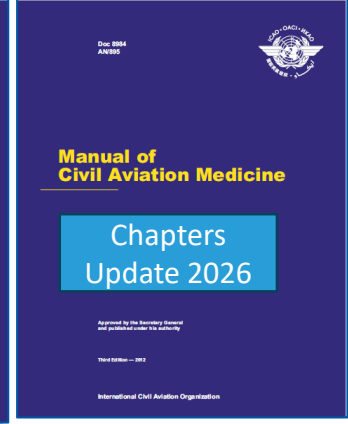
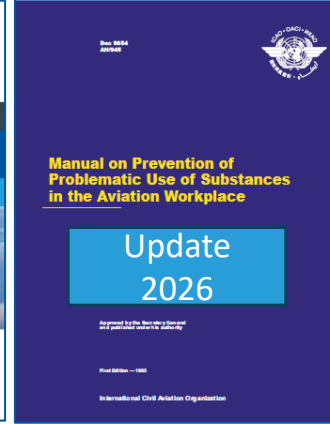
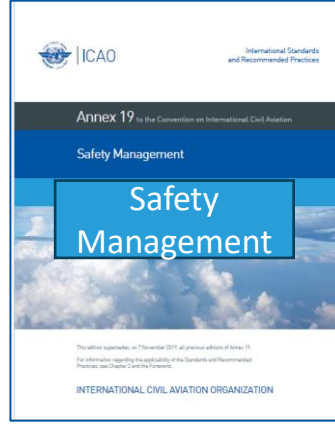
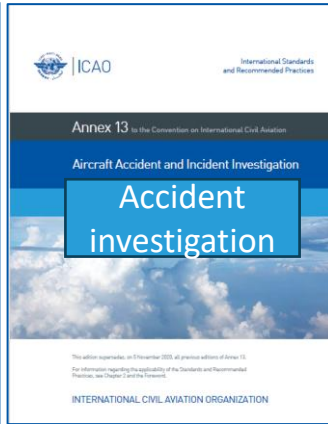
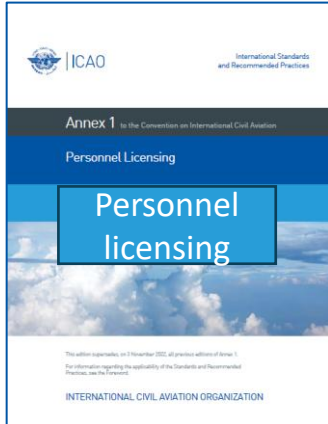
Risk mitigation

- Qualitative and quantitative, bow-tie, risk matrices, Swiss Cheese mitigation measures, acceptable risk threshold

The future

- Research, data analysis, data driven algorithmic risk modelling, consider new types of operations: single pilot, remote pilots, etc.

# ICAO Annexes and Manuals



# ICAO 2025 Report on the State of Global Aviation Safety

## Article: The role of Health Promotion and Mental Wellbeing in Enhancing Aviation Safety

The value of health promotion, mental wellbeing advocacy and the ultimate effective application of individualized risk management should not be underestimated in terms of building trust within the aviation medical system and the resultant effect of enhanced aviation safety



## Peer support Programmes (PSPs)

- Importance of implementing PSPs
- Licence holders and safety-sensitive workers
- Collaboration between all aviation stakeholders
- Caution: do not link PSPs to medical certification

## Substances

- Framework for evaluating use of psycho-active substances

## Health promotion and assessment

- Value of national preventive activities
- Include in aviation medical examinations

## Aviation security personnel

- Global guidance for mental health risk assessment
- No psychological/ mental health screening by AME



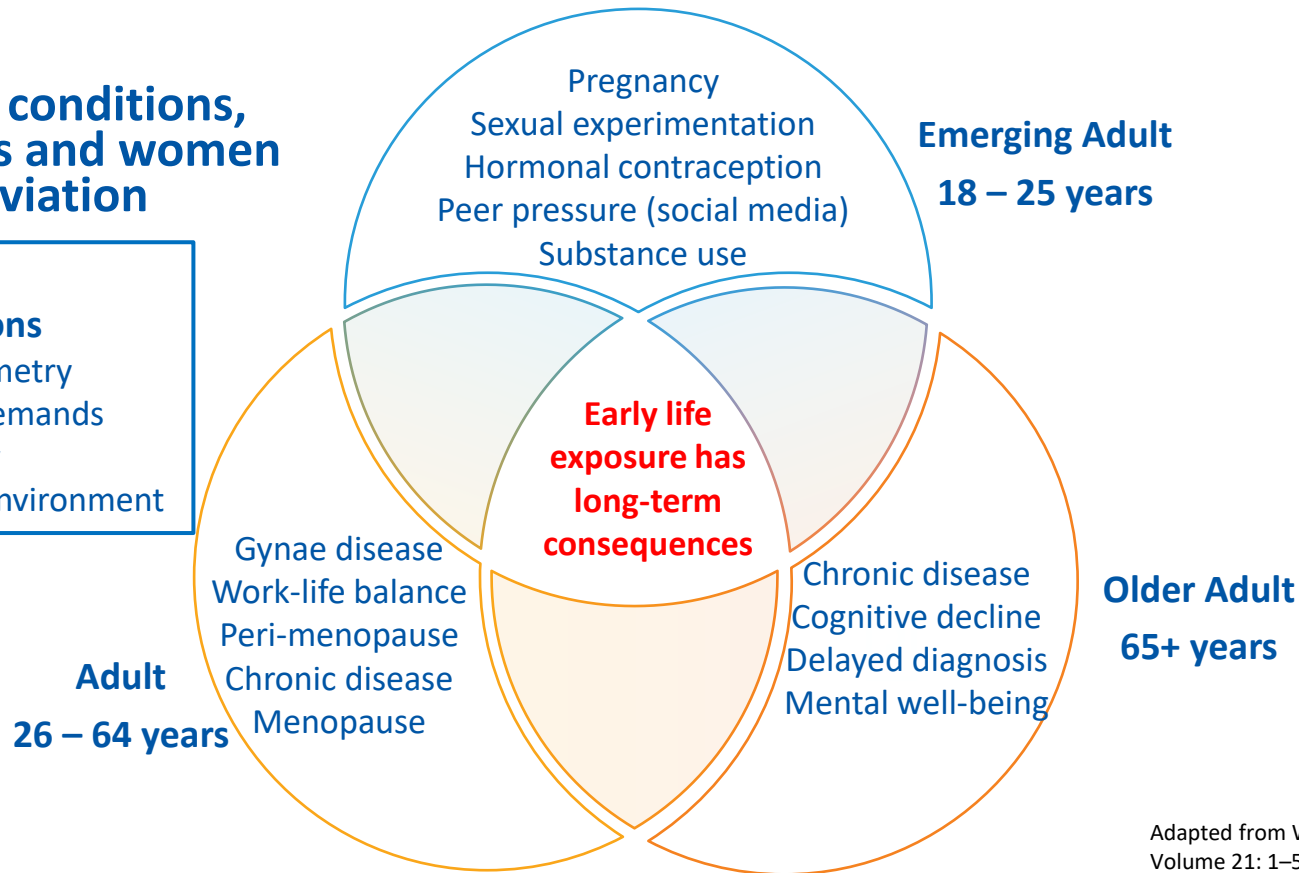
## Data-based risk management and decision-making in aviation medicine

- **Standardized data** collection to inform evidence-based SARPs
- Global framework for managing **in-flight passenger health emergencies**
- Guidance to implement **Aviation Health Management system** based on SMS principles
- Enhance data generation and collection, strengthen the aviation medical system to safely support considering a future increase in the **age limit**

## Medical conditions, life stages and women in aviation

### General considerations

- Anthropometry
- Physical demands
- Physiology
- Working environment



Adapted from Women's Health  
Volume 21: 1–5  
DOI: 10.1177/17455057251331721  
[journals.sagepub.com/home/whe](https://journals.sagepub.com/home/whe)

## What about support for women in Aviation Medicine ?

1. ICAO Medical Assessor Peer Support Programme
2. ICAO Women in Aviation Medicine Support Programme
  - Virtual networking
  - Physical networking opportunities
  - Mentorship programs
  - Advice on career progression pathways

## Summary of plans

- **International Health Regulations (IHR) published by WHO**
- **ICAO Annexes 6, 9, 11, 14, 18 & PANS-ATM Document**

- **National Public Health Emergency Contingency Plan**
- **National Aviation Regulations with standards related to public health**
- **National Aviation Plan for a Public Health Emergency**
- **Airport (PoE) Public Health Emergency Contingency Plan**

**Aerodrome** Emergency Plan and Aerodrome Manual including public health emergencies

**Air Traffic Services (ATS)** contingency plan including public health emergencies

**ATS** Procedures for notification of suspected public health risk on board an aircraft

**Aircraft Operators** Procedures for managing suspected public health risk on board an aircraft

**Business Continuity Management Plans and Procedures for Airports, Airlines & ANSPs**





Thank You