Features of health preservation of civil aviation personnel in Russia

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Strategies of health preservation



Active preventive measures in order to decrease the impact of risk factors that could impair capability and affect operating performance

Medical rehabilitation of personnel having functional disorders caused by adverse conditions of occupational environment

Current system of preservation of airmen health in Russia includes:



• Established working hours

 Medical examination and assessment for medical certification

Rehabilitation and prevention of incapacitation



Established working hours



Mitigate fatigue development / the threat of tiredness / decreased capability

Support aircrew health

Workload cannot exceed:

- **36** hours per week
- 80 hours per month
- 800 hours per year



*However, it is allowed to increase in-flight hours up to **90** per month and **900** per year provided there is an agreement signed by a pilot and trade union of airmen (except cases of sensorineural hearing loss)

3 Levels of Medical Provision of Operational Safety



1st **level:** Medical examination and assessment by Flight Expert Medical Commissions

2nd level: Medical dynamic supervision

3rd level: Pre-flight and pre-shift medical check-ups

Federal level Aviation Medicine Group

Central Flight Expert Medical Commission (Central Clinical Hospital of Civil Aviation, Moscow)

40 Flight Expert Medical Commissions (Aviation experts)

1st level: Medical examination and assessment

. Assessment of medical fitness

- 2. Medical certification
- 3. Identifying early stages of illnesses, risk factors and health functional deviations

Experts: a physician, a neurologist, a surgeon, an otolaryngologist, an ophthalmologist, a psychologist

Central Clinical Hospital of Civil Aviation (CFEMC)





- o regulating the strategies
- o developing and implementing programs of occupational durability supervision
- monitoring of FEMC

AIRMEN

AIR TRAFFIC CONTROLLERS

FLIGHT ATTENDANTS

Statistic data on health capability of civil aviation personnel (2016)



	Age groups	Assessed	Fit	Unfit	Temp unfit	Age groups	Assessed	Fit	Unfit	Temp unfit	Age groups	Assessed	Fit	Unfit	Temp unfit
	Under 29	3034	3021	3	10	Under 29	888	843	41	4	Under 29	7857	6809	876	172
:	30-39	3905	3871	6	28	30-39	740	719	20	1	30-39	4561	3931	529	101
	40-49	5965	5834	36	95	40-49	816	786	16	14	40-49	1552	1364	93	95
	50-59	5643	5167	321	155	50-59	2085	1937	78	70	50-59	355	305	21	29
	6o and above	867	673	124	70	6o and above	478	404	62	12	6o and above	20	18	2	—
	Total	19414	18566	490	358	Total	5007	4689	217	101	Total	14345	12427	1521	397

"Temporarily unfit" (2016)



 932 (1.9% out of all assessed persons) conclusions of "temporarily unfit".

• Average age - **55** years old.

Reasons for denial:

- sensorineural hearing loss
- cerebral atherosclerosis
- hypertension
- cardio vascular disease
- cancer of different localizations etc.



2nd level: medical dynamic supervision and follow-up observation



Monitoring aviation personnel health within the period between medical examination at Flight Expert Medical Commission and semi-annual medical observations

Providing treatment activities

Delivering preventive procedures

54 111 examinations 49 532 additional examinations







4465 pilots were treated in 2016





3rd level: pre-flight and pre-shift health check-ups





Statistic data

pre-flight pre-shift medical check-ups



Number of check-ups and reasons	Aviation stat	Total		
for suspension	Flight crew	Cabin crew	Air traffic controllers/ Student pilots	
Overall check-ups	900505	1450888	583178/31610	2966181
Suspended (total)	182	1047	54/6	1283/6
Acute disease	90	737	28	855
Acute exacerbation of chronic illness	17	155	12	184
Alcohol misuse	1	19	-	20
Other substance misuse	-	-	1	1
Non-sufficient pre-flight rest	4	10	1/6	15/6
 Failed to pass medical examination by aviation practitioner 	9	4	2	15
Absence of valid medical	5	4	-	9

Aviation Medicine Doctors Association (AMDA)

- Developing aviation medicine to boost operational safety
- Exchanging research results and experience
- Establishing relations with responsible institutions
- Promoting official acknowledgement of aviation medicine



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Thank you for your attention!

