The National FAA Safety Team Presents

Topic of the Month – Dec (from Oct) <u>Aerospace Medicine and You</u>

Presented to: By: Date: EAA Apalachicola Chapter 1646 Bruce Graham FAAST Rep KAAF / X13 9 December 2023

Produced by: The National FAA Safety Team (FAASTeam)





Welcome

- Exits
- Restrooms
- Emergency Evacuation
- Breaks NONE
- Set phones & pagers to silent or off



- Thanks for making FAAST a part of the EAA Apalachicola Chapter 1646 Safety Focus
- Attendance sheet with your WINGS email for credit!



Overview

- General Aviation Joint Safety (GAJSC) & FAA Accident Study Findings
- FAA Office of Aerospace Medicine
- Medical certification
- Flying and Medications
- Drug/Medication Combinations
- Tips



General Aviation Joint Steering Committee (GAJSC)

Loss of Control Work Group

Approach and Landing

September 1, 2012

This report provides an overview of the work of the General Aviation Joint Steering Committee (GAJSC) since the FAA-Industry program was re-established in January 2011 with specific focus on its pilot project on loss-of-control on approach and landing.



FAA Safety Briefing Magazine

- January/February 2022 Issue
 - Aerospace Medicine focus
 - Roles and responsibilities
 - Medical Certification
 - Basic Med
 - Speeding up the certification process
 - Prescription and OTC Medications
 - The Human Factor
 - And more …..

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Federal Aviation Administration	B Basickled is Turning Firef 11 How to Fass-Track Tour Medical	22 Whos Who in the Office of Resource Medicine	/



FAA Office of Aerospace Medicine

Headquarters – Washington DC

– Federal Air Surgeon – Dr. Susan Northrup

Aerospace Medical Certification Division

- Pilot & employee medical certification

Civil Aerospace Medical Institute (CAMI)

Medical and human factors research and education

Drug Abatement Division

- Aviation industry drug & alcohol testing

Regional Medical Divisions

 <u>Regional Flight Surgeon Contact Information | Federal Aviation</u> <u>Administration (faa.gov)</u>



More about Medical Certification

- Medical certificates
- Pilot Information
- Aviation Medical Examiner Locator
- Q&A
- MedXpress
- BasicMed





More about CAMI

- Aerospace Medical & Human Factors Research
- Aerospace Medical Education Training Programs
 - Aviation Medicine
 - Aviation Medical Examiners (AMEs)
 - Airman Education Programs
- Aeromedical Safety Brochures

https://bit.ly/3HV28BW







Pilot Maintenance

- Annual/100 hour inspections
 - Periodic medical examinations
- Preflight and Post-flight Inspections

 I'm SAFE Checklist
- Detect and correct small problems
 - Before they become big ones







I'm Safe Checklist

- I Illness
- **M Medication**
- S Stress
- A Alcohol
- F Fatigue
- **E** Eating & Emotion





Getting started with medical certification

https://medxpress.faa.gov



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Federal Aviation Administration				Log In	I	Contact Us	
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Release 4.0							
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Schedule an examination

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Search		
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https://bit.ly/3Mxmjtj





BasicMed at 7-years

•FAA medical certificate issued after July 16, 2006

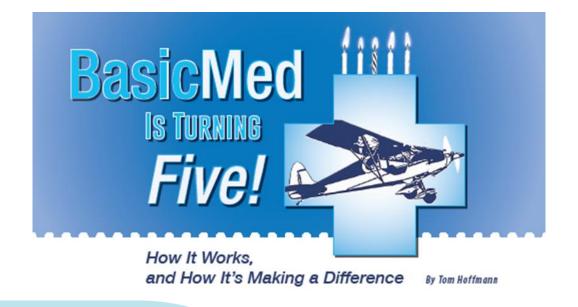
- •Current and valid U.S. Driver's License
- •Comprehensive Medical Exam Checklist (CMEC)

Physical Exam

- •By state-licensed physician.
- •Online Course

•AOPA

•Mayo Clinic





BasicMed Limitations

- Aircraft
 - Max Takeoff Weight not more than 6,000 pounds
 - No more than six occupants
- Operations
 - No more than five passengers
 - No higher than 18,000 MSL or above 250 KIAS
 - No flights outside the United States
 - No operations for compensation or hire
 - CFIs may receive compensation for instruction given.





Getting started with BasicMed

BasicMed | Federal Aviation Administration (faa.gov)

Federal Avia Administrat		About Jobs Nev			
	FAA Home + Licenses & Cert	ificates • Airmen Certification			
Air Carrier and A Certification	ir Agency BasicMed			<	
Aircraft Certificat	ion				
Airmen Certific	ation	e way for pilots to fly without holding an FA	A Top Task	s	
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Medical Certifica	fly! There are two, free onli • Mayo Clinic Basich	ete an online medical course and you're rea ne courses to choose from: Aed Online Training Course년 Medical Self-Assessment: A Pilot's Guide to	requirements Replace an ai Log in to airm	rmen certificate	
	funding. This legislation, F	as passed legislation to extend the FA AA Extension, Safety, Security Act of 2 m holding an FAA medical certificate t called BasicMed.	2016	Two BasicMed Online Courses Now Available	
	When can I fly u	nder BasicMed?			
		requirements, you can operate under medical certificate) right now!		Medical Checklist	
_	What do I need t	o do to fly under Basic	Med?		



Comprehensive Medical Exam Checklist

- Section 1 Airman
 - Complete before physical exam

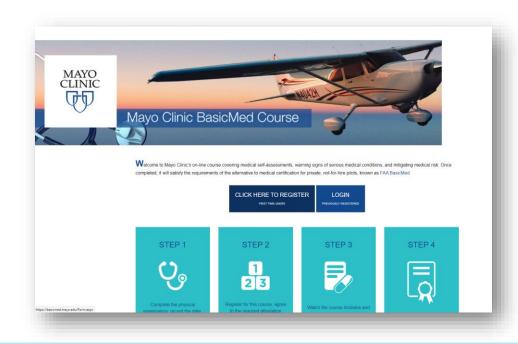
Section 2 – State-licensed Physician

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Online Course

- AOPA
- Mayo Clinic





- Course refresher 24 months
- Physical exam 48 months



CAMI Toxicology Study

- January/February 2022 Issue
 - 570 out of 1,353 pilots tested positive for medications/drugs.
 - 511 of the 570 (90%), were flying under CFR Part 91.
- Extent of Impairment –
 Undetermined
 - But cause for concern





What's the Problem

- Not easy to determine extent of impairment
 - Different medication effects for different people
 - Post-mortem redistribution and sample type
- Don't know about pilot's condition
 - Pre-existing medical condition requiring medication
- AME not consulted?
- Drug interactions





Federal Drug Labeling Standards

Provide information for:

Patients

Healthcare professionals

Both







OTC Medication Labeling

- Read the label
- Labeling Standards
 - Directed to medication users
 - In non-technical language





OTC Medication Labeling

- Read the label
 - Active Ingredient(s)
 - Purpose
 - Uses
 - Warnings
 - Directions

Drug Facts	
Active ingredient (in each table Chlorpheniramine maleate 2 mg	
Uses temporarily relieves these symptoms allergies: sneezing runny nose it	
Warnings Ask a doctor before use if you have glaucoma a breathing problem such a trouble urinating due to an enlarged prostat	te gland
Ask a doctor or pharmacist before use if y	ou are taking tranquilizers or sedatives
When using this product drowsiness may occur avoid alcoholic alcohol, sedatives, and tranquilizers may in be careful when driving a motor vehicle or o excitability may occur, especially in children	crease drowsiness operating machinery
If pregnant or breast-feeding, ask a health Keep out of reach of children. In case of o Control Center right away.	professional before use. verdose, get medical help or contact a Poison
Directions adults and children 12 years and over	take 2 tablets every 4 to 6 hours; not more than 12 tablets in 24 hours
children 6 years to under 12 years	take 1 tablet every 4 to 6 hours; not more than 6 tablets in 24 hours

Drug Facts (continued)	-
Other information store at 20-25° C (68-77° F)	protect from excessive moisture
Inactive ingredients D&C yellow no. 10, lactose, l cellulose, pregelatinized starch	magnesium stearate, microcrystallin



Sleep Aids & Cough Medications

- Both likely to contain antihistamines which may cause drowsiness or sedation
 - "Hang Over" effect
 - Side effects may last several days
- Short term use only





How long must I wait?

- FAA recommends waiting five times the dosage interval.
 - Particularly true for any medication causing drowsiness.
- Four times per day = 6-hour intervals
 - $-5 \times 6 = 30$ hours





Prescription Medications

• May recommend not operating a motor vehicle

- Includes cars, airplanes, boats, etc.

May be prescribed individually

- Perhaps by different Healthcare Providers
- Interactions may not be addressed or unknown

Prescription drug labeling

- Directed to Healthcare Provider





Prescription Drug Labeling

- Known by several names including: "prescribing information" or "package insert"
- Intended for Healthcare providers, but available to anyone
 - May be several pages long in very small print
 - Very technical language





Do not issue - Do not fly

Federal Av Administra		FA	A Home	Jobs	News Sea	About FAA A-2	
Aircraft Airports Air	Traffic	Data & Research	License	s & Certif	īcates	Regulations & Polic	
Guide for Aviation Medical Examiners		me □ Offices □ Aviation Sa on Medical Examiners □ P			ce Medicin	ne ⊒ Aviation Medical Exam	
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Search Guide	Gui	Guide for Aviation Medical Examiners					
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Decision Considerations	The info	rmation in this section is	provided to	advise Avia	ation Medi	cal Examiners	
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Special Issuances		dications for which they sl Federal Aviation Adminis			nts withou	it clearance from	
Substances Dependence/Abuse		dications for which for whi vide additional safety info				not fly and	



Combining Medications

Prescriptions with Prescriptions

- Does the Prescribing Provider know you fly?
- Does your AME know about <u>all</u> the medications you take and conditions you have?

Prescriptions with OTC

- Consult your AME and/or Regional Flight Surgeon
- and/or consult your Pharmacist





FAA Clarifies Marijuana and CBD Policy

- Positive tests of THC disqualify certain certifications even if it is a trace from CBD products.
- Cannabis remains illegal at the Federal level and US DOT continues to test for THC presence.
- Commercial CBD products, not approved by the FDA, may be mislabeled and contain detectible levels of THC.
- CBD oil is not accepted as an affirmative defense against a positive drug test.





Tips

- Consult your AME before flying while using prescription and/or OTC Drugs.
- Make sure your AME knows about all the drugs you take and the medical conditions requiring their use.
- Let your prescribing doctor know that you are a pilot
- Ask about adverse effects associated with drug combinations.
- In between doctor visits you're self assessing your condition before each flight. Ground yourself when you're not fit to fly.





Resources

• FAA Safety Briefing Magazine

November/December 2023 issue

 <u>https://www.faa.gov/sites/faa.gov/fil</u> <u>es/NovDec2023.pdf</u>





Questions?

Special Thanks to: Jon M. Grazer, MD / William J. Tsai, MD / G. J. Salazar, MD, MPH

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Have you earned your WINGS?

• Proficient Pilots are:

- Confident
- Capable
- Safe
- **WINGS** will keep you on top of your game





http://www.mywingsinitiative.org/



The Paul and Fran Burger

\$10,000 WINGS Sweepstakes

The **WINGS** Sweepstakes mission is to reduce the nation's accident and incident rate by increasing pilot participation in the *WINGS* FAASTeam Pilot Proficiency Program. The *WINGS* program has courses based on real world accident and incident causes so flight instructors, pilots and student pilots get training that can truly make a difference.

<u>Studies</u> indicate that pilots who complete *WINGS* phases are safer aviators. Please join us in saving lives.

Captain Sully endorses the WINGS Pilot Proficiency Program

View the video learn about the program and its many benefits.

The 2020 Sweepstakes awards 10 cash prizes! Prize levels include:

Four (4)	\$1,500
Four (4)	\$750
Two (2)	\$500







Proficiency and Peace of Mind

- Fly regularly with your CFI
- Perfect Practice
- Document in WINGS







Safety Management Systems (SMS) Coming to General Aviation









Thank you for attending

You are vital members of our GA safety community







The National FAA Safety Team Presents

POMINISTRATIO

Federal Aviation Administration

Topic of the Month - Dec (from Oct) <u>Aerospace Medicine and You</u>

Presented to:

By:

Date:

EAA Apalachicola Chapter 1646

Bruce Graham FAAST Rep KAAF / X13

9 December 2023

Produced by: The National FAA Safety Team (FAASTeam)

