I have indexed the "Clinical Problems in Aviation Medicine" (CPAM), "You're the Flight Surgeon" (YTFS), "Cases From The Aerospace Medicine Residents' Teaching File" (AMRTF), "Aeromedical Grand Rounds" (AGR), "Topics in Aeromedical Certification" (TAC), "Cases from CAMI" (FAA Civil Aerospace Medical Institute Aerospace Medical Certification Division) columns, and other articles discussing the aeromedical disposition of particular clinical conditions in the journal of the Aerospace Medical Association from its inception in 1930 through December 2016 by topic.

The CPAM series published 14 articles from September 1961 to November 1963 from Mayo Clinic. The first YTFS article was in January 1975 and continues to the present. YTFS articles before August 1990 are not indexed in PubMed; and prior to April 1989 no authors were listed. The AMRTF series published 80 numbered cases from October 1984 through 2004. Case number 5 I cannot find in PubMed or the AsMA index. The AGR series published 19 articles from November 1993 through December 1996. The TAC series published 21 articles from January 1998 to August 2001. The CAMI series published 19 articles from June 2006 through September 2008.

In the clinical and review articles I not did not include retrospective reviews or prospective incidence studies of a population; mishap or inflight incapacitation review; specific medication review, unless it was in the context of a clinical condition; and non-aviation environments (including parachuting, diving) and passenger- and aeromedical evacuation- related conditions. Some of the articles in CPAM, YTFS, AMRTF, AGR, TAC, and CAMI may include articles not dealing directly with aviators; all in those series are included for completeness. I included the few letters to the editor that responded to an indexed article. Many articles titled with “Clinical Problems in Aviation Medicine” and “Clinical aviation and aerospace medicine” are not numbered as part of the CPAM series (1962 to 1976) but are include in the general clinical article classification. Most articles are indexed under one system/subsystem index; a few articles that clearly covered two or more specific topics were so indexed; e.g., acceleration stress causing pneumothorax.

I have indexed the condition discussed by general body system, with aeromedical, cancer, traumatic, and toxic also listed as systems. The categories are listed alphabetically: aeromedical, allergic, cancer, cardiovascular, dermatologic, endocrine, otolaryngologic (ENT), exam, gastroenterologic, general, hematologic, infectious, musculoskeletal, neurologic, ophthalmic, psychologic, pulmonary, renal, rheumatologic, toxic, traumatic, and urologic. Most categories are divided into subsystems listed alphabetically, and then specific topics listed alphabetically. Then the articles are listed chronologically.

I abbreviated the text in titles “You’re the Flight Surgeon,” “Cases from the aerospace medicine residents' teaching file,” “Aeromedical Grand Rounds,” and “Topics in Aeromedical Certification” as YTFS, AMRTF, AGR, and TAC to make the index more readable. Several articles had no text after YTFS or AMRTF; the condition is entered in [brackets] in the title. The AGR series did not include the text “Aeromedical Grand Rounds” before the title; I used “AGR” to indicate the series in the index.

I have omitted the journal name for space considerations. From 1930 it is The Journal of Aviation Medicine, in 1959 changed to Aerospace Medicine, in 1975 changed to Aviation, Space, and Environmental Medicine, and in 2015 changed to Aerospace Medicine and Human Performance. From 1930 to 1942 there were four issues per year; from 1943 to 1957 six per year; and since then twelve per year.

I plan to index by author with affiliation (military service or civilian) and treatment (if relevant) in the future. I also plan to indicate if an article is a case report or review articles. Please contact for errors or ideas.

Richard Sumrall, Lt Col, MC, USAF, CFS

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Clinical Problems in Aviation Medicine

Editor's Note: Aerospace Medicine is establishing a new section to present, on a scheduled monthly basis, Clinical Problems in Aviation Medicine encountered in pilots and other members of the aircrew. Dr. Jan H. Tillisch and Dr. Earl T. Carter of the Mayo Clinic will present these problems in the form of Case Reports. It is hoped that the presentation and solution of clinical problems will be of practical value to the readers of the Journal and will serve to supplement the increasing number of excellent case studies appearing with greater frequency in the Journal. If you approve (or disapprove) of this section, I shall be pleased to receive your comments.

John P. Marebarger, Editor

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You're the Flight Surgeon

From the Aerospace Medicine Residents' Teaching File

Send Case Presentations and Questions to:
"The Aerospace Medicine Residents' Teaching File"
USAfSAM/NGF
Brooks AFB, Texas 78235
Series Editor A.J. Parmet, M.D.

Aeromedical Grand Rounds

Topics in Aeromedical Certification

Editor's Note:
We are pleased to introduce a new category of articles in this journal: "Topics in Aeromedical Certification." The bulk of the articles will likely be submitted by colleagues from the Federal Aviation Administration and we greatly appreciate their efforts. The military services are also welcome to submit topics under this category regarding interesting or problematic certification cases which would be informative to the reader.

G. Richard Holt, M.D., Editor-in-Chief
Aeromedical

Acceleration stress

Acceleration stress

Cerebrovascular accident
Cerebrovascular accident subsequent to G-force loading: A case report. 1979 Apr;50(4):399-400.

G-induced loss of consciousness

Low G-tolerance

Psychogenic G-force intolerance

Spine transverse process fracture

Spontaneous pneumothorax

Tonic-clonic seizure

Aeromedical transport

Aeromedical evacuation

Aeromedical transport

Age
Age effects
The effect of age on flying. 1934 Sep;5(3):80-95.

Airsickness

Airsickness

Recurrent airsickness

Simulator sickness

Altitude

Acute mountain sickness

Altitude effects

Altitude hypoxia
YTFS: [Altitude hypoxia]. 1977 Sep;48(9):889.

Altitude medicine

High altitude retinal hemorrhage
High-altitude cerebral edema

High-altitude pulmonary edema

Hyberbaric oxygen therapy

Oxygen paradox

ARMA
Aeronautical adaptability
The role of aeronautical adaptability in the disqualification of a military flyer. 2006 Nov;77(11):1188–1192.

Personality

Psychologic exam

Barotrauma
Barotitis media

Middle ear block
YTFS: [Middle ear block]. 1975 Nov;46(11):1418.

Pulmonary barotrauma

Sinus barotrauma

Decompression illness
Arterial gas embolism
Explosive decompression with resultant air gas embolism in a fourth generation fighter at ground level. 2016 Nov;87(11):963-7.

Decompression sickness
YTFS: [Decompression sickness]. 1988 Dec;59(12):1209.

Neurologic decompression sickness
YTFS: [Neurological decompression sickness]. 1975 Sep;46(9):1197.

Pulmonary decompression sickness

Type I decompression sickness
AMRTF: Type I decompression sickness and acute awareness of physiologic blind spot. 1986 May;57(5):482-5.

Fatigue
Aircrrew fatigue

Circadian desynchrony

Fatigue

Jet lag

General
Aeromedical decision making
YTFS: The flight surgeon is the key component in ensuring the aviation population is physically and mentally fit to fly. 2004 Nov;75(11):1009-11.

Aeromedical history

Preventive medicine
YTFS: [Various preventive medicine topics]. 1980 May;51(5):527.

Space medicine

Travel medicine

Various
Hyperventilation

Hyperventilation

Mishap

Aircraft mishap

Crash survival
YTFS: [Crash survival]. 1986 Oct;57(10):1012.

Disaster response

Mishap investigation

Mishap rate

Mishap response

Mishaps and fatalities

Vertebral fracture

Motivation

Adjustment disorder

Failing aviator

Fear of flying
Flying and danger, joy and fear. 1986 Dec;57(12):131-6.

Flying phobia

Malingering

Post traumatic stress disorder

Night vision

Night vision imaging system incompatibility

Spatial disorientation

Alternobaric vertigo
Clinical aviation and aerospace medicine: Vertigo due to increased middle ear pressure: Six-year experience of the aeromedical consultation service. 1971 Sep;42(9):999-1001.
Coriolis illusion

False climb sensation
YTFS: [False climb sensation at night]. 1975 Mar;46(3):323.

Spatial disorientation
YTFS: [Spatial disorientation]. 1975 May;46(5):747.
YTFS: [Spatial disorientation]. 1981 Sep;52(9):566.

Visual illusions

Allergic

Allergic fungal sinusitis

Anaphylactoid reaction

Idiopathic urticaria

Insect allergy

Hymenoptera hypersensitivity
Case report of an aviator with a single episode of altered consciousness due to hymenoptera hypersensitivity. 1999 Nov;70(9):1113-6.

Cancer

Adrenal gland

Myelolipoma

Bladder

Bladder cancer

Transitional cell papillary carcinoma

Brain

Cerebral lymphoma

Intracranial neoplasm

Prolactinoma

Childhood

Childhood malignancies
Colon
Colon adenocarcinoma


Colon cancer


Head and neck
Head and neck cancer


Kidney
Renal cell carcinoma


Leukemia
Chronic lymphocytic leukemia


Multiple myeloma


Lung
Anaplastic bronchogenic carcinoma


Lung cancer


Lymphoma
Hodgkin's lymphoma


Non-Hodgkin lymphoma


Nasopharyngeal
Nasopharyngeal carcinoma


Pancreas
Pancreatic carcinoma


Pituitary gland
Pituitary tumor


Prostate
Prostate cancer

Prostate cancer. 2006 Sep;77(9):984–986.

YTFS: Prostate cancer, erectile dysfunction, and seizure. 2009 Jul;80(7):670-1.

YTFS: Prostate cancer. 2012 Sep;83(9):918-9.

Testes
Metastatic embryonal carcinoma of the testicle


Testicular cancer

YTFS: [Testicular cancer]. 1989 May;60(5):474-5.


Thymus

Thymic carcinoma


Thyroid gland

Hürthle cell carcinoma


Papillary thyroid carcinoma


Thyroid cancer


Cardiovascular

Abnormal ECG

ECG and thallium imaging abnormalities with normal coronary angiogram in a male flight surgeon. 2006 Jul;77(7):749–752.

Cardiac rhythm

Abnormal ECG


Abnormal stress ECG


Accelerated idioventricular rhythm


Arrhythmogenic right ventricular dysplasia


Atrial fibrillation


Atrial fibrillation presented with syncope in a jet pilot during daily briefing on squadron. 2014 Sep;85(9):965–9.

YTFS: Atrial fibrillation. 2016 May;87(5):508-10.

Atrial tachycardia


Brugada syndrome


Cardiac arrest


Cardiac asystole

Complete heart block

First degree heart block

Left anterior hemiblock

Left axis deviation

Left bundle branch block

Multifocal premature ventricular contractions

Premature ventricular contractions

Right bundle branch block
Clinical significance of acquired complete right bundle branch block in 59 patients without overt cardiac disease. 1969 Sep;40(9):967-71.

Secondary R' waves


Sick sinus syndrome

Supraventricular arrhythmia

Supraventricular tachycardia
YTFS: Supraventricular tachycardia. 2016 Dec;87(12):1051-3.

Ventricular fibrillation
Ventricular tachycardia
Wide complex tachycardia
Wolff-Parkinson-White pattern
Wolff-Parkinson-White syndrome
   Clinical aviation and aerospace medicine: Wolff-Parkinson-White syndrome simulating myocardial infarction.

Heart
Asymmetric septal hypertrophy
Atrial septal defect
Cardiac anthracycline toxicity
   Cardiac effects of anthracycline treatment and their implications for aeromedical certification. 2003
   Sep;74(9):1003–8.
Cardiomyopathy
   An aviator with cardiomyopathy and genetic susceptibility to hereditary hemochromatosis: A case report.
Congenital heart disease
Dextrocardia
   Isolated dextrocardia in a commercial pilot candidate. 2005 Feb;76(2):137–140.
Endocarditis
   Mar;68(3):221-4.
Hypertrophic cardiomyopathy
Hypertrophic subaortic stenosis
   TAC: Thick hearted: Idiopathic hypertrophic subaortic stenosis is known to place individuals at increased risk
Idiopathic cardiomegaly
Idiopathic dilated cardiomyopathy
Intracardiac foreign body
   Clinical aviation and aerospace medicine: Aeromedical evaluation of an asymptomatic patient with a bullet in
   the heart. 1972 Feb;43(2):207-8.
Left ventricular hypertrophy
   Clinical aviation and aerospace medicine: Primary myocardial disease; report of a case. 1967
Myocardial sarcoidosis
   AGR: Magnetic resonance imaging as an aid to the diagnosis and treatment evaluation of suspected
Myocarditis
AMRTF: Case report of an aviator with focal myocarditis mimicking myocardial infarction with normal coronaries. 2002 Dec;73(12):1235-7.

Patent foramen ovale
AMRTF: Transient ischemic attack in an aviator with patent foramen ovale and Factor V Leiden. 2003 Dec;74(12):1303-5.
Migraine headaches and cerebrovascular accident secondary to patent foramen ovale. 2007 May;78(5):530–531.

Ventricular diverticulum

Hypertension
Angiotensin converting enzyme inhibitors

Hypertension
YTFS: [Hypertension and jaw fixation in traveller]. 1975 Jan;46(1):93.
YTFS: [Hypertension]. 1978 Apr;49(4):646.
YTFS: [Hypertension]. 1990 Sep;61(9):867-8.
YTFS: [Herbal supplement use]. 1999 Sep;70(9):934-5.

Pre-hypertension
YTFS: A hyperlipidemic, prehypertensive pilot--when do you take the cholesterol and blood pressure by the horns? 2009 Sep;80(9):832-4.

Ischemia
Abnormal thallium test
ECG and thallium imaging abnormalities with normal coronary angiogram in a male flight surgeon. 2006 Jul;77(7):749–752.

Coronary artery disease
Diagnosis of coronary artery disease. 1950 Dec;21(6):448-55.


Myocardial infarction
Myocardial infarction in a young aviator. 1940 Jun;11(2):75-80.
YTFS: Acute myocardial infarction 2013 Dec;84(12):1310-1.

Silent myocardial infarction

Lymphatics
Lymphedema

Peripheral edema

Syncope
Carotid sinus syndrome

Cough syncope
YTFS: [Cough syncope]. 1999 Sep;70(9):933-4.

Stagnant hypoxia

Syncope

Vasovagal presyncope

Vasovagal syncope

Thrombosis
Axillary vein thrombosis
Deep vein thrombosis


Hyperhomocysteinemia


Pulmonary embolism


Valve

Aortic insufficiency


Aortic root aneurysm

- Aortic root aneurism found in a 42-year-old epitomizes the importance of auscultation in routine exams 2016 May;87(5):487-92.

Aortic stenosis


Bicuspid aortic valve


Mitral regurgitation


Mitral valve prolapse


Pulmonic stenosis


Valve replacement


Vessel

Aortic aneurysm

Bicuspid aortic valve
Aortic root aneurism found in a 42-year-old epitomizes the importance of auscultation in routine exams 2016 May;87(5):487-92.

Carotid artery dissection

Congenital absence right pulmonary artery

Cystic medial necrosis
In-flight incapacitation and cystic medial necrosis. 2013 Sep;84(9):990-4.

Iliac artery occlusion

Patent ductus arteriosus

Popliteal artery entrapment

Pulmonary arteriovenous malformation

Raynaud's phenomenon

Renal infarction

Takayasu's arteritis

Venous angioma

Venous thoracic outlet syndrome

Dermatologic

Erythema multiforme

Erythema nodosum
YTFS: [Sarcoidosis]. 1989 Jul;60(7):718.

Furunculosis

Henoch-Schöenlein purpura
YTFS: Henoch-Schöenlein purpura. 2007 May;78(5):532-3.

Paronychia
YTFS: Paronychia. 1999 Dec;70(12):1238.

Pemphigus vulgaris

Pityriasis rosea

Psoriasis

Tinea incognito
Cancer

Melanoma
YTFS: Melanoma. 2005 Sep;76(9):900-1.
Primary cutaneous malignant melanoma. 2008 Sep;79(9):919–21.

Skin cancer

Dermatitis

Allergic contact dermatitis

Atopic dermatitis

Contact dermatitis
Contact dermatitis to flight gloves. 1964 Jan;35(1):70-1.

Occupational dermatitis

Endocrine

Adrenal

Addison's disease

Adrenal insufficiency
YTFS: [Iatrogenic adrenal insufficiency]. 1985 Dec;56(12):1231.

Pheochromocytoma

Bone

Osteopenia

Calcium

Asymptomatic hypercalcemia
AMRTF: A student pilot presents with asymptomatic hypercalcemia during his initial class I physical. 1991 Feb;62(2):180-1.

Diabetes mellitus

Diabetes mellitus
Case reports. 1935 Sep;6(3):95-7.
Diabetes mellitus type 1 in five military aviators: Flying with insulin. 2005 Sep;76(9):861–862.
Diabetic hypoglycemia

Hyper-/hypo-glycemia

Pre-diabetes

General

Autoimmune polyglandular syndrome type 2

Hypokalemic periodic paralysis

Pituitary microadenoma

Lipid

Dyslipidemia
YTFS: [Dyslipidemia]. 1980 Sep;51(9):942.
Lipid lowering therapy and military aviators. 1996 Sep;67(9):867-71.

Hyperlipidemia
YTFS: A hyperlipidemic, prehypertensive pilot--when do you take the cholesterol and blood pressure by the horns? 2009 Sep;80(9):832-4.

Parathyroid

Primary hyperparathyroidism

Testes

Congenital male hypogonadism

Hypogonadism

Thyroid

Hypothyroidism

Thyroiditis
YTFS: [Thyroiditis]. 1993 Dec;64(12):1154.

Thyroid gland

Elevated thyroxine-binding globulin

Hyperthyroidism

ENT

Ear

Cholesteatoma

Eustachian tube dysfunction
Otosclerosis  
Otosclerosis and fitness to fly. 2015 Dec;86(12):1039–1045.

Perforated tympanic membrane  

Ear, inner  
Acoustic neuroma  

Autoimmune inner ear disease  

Labyrinthine dysfunction  
YTFS: Labyrinthine dysfunction. 2011 Sep;82(9):926-7.

Labyrinthitis  
YTFS: [Vestibular neuronitis]. 1989 Jan;60(1):89.  

Ménière's disease  

Perilymph fistula  

Vestibular neuritis  

General  
Allergic rhinitis  

Ear, nose and throat conditions  

Horner's syndrome  

Hearing loss  
Hearing loss  

Noise-induced hearing loss  

Mouth  
Pneumoparotitis  
Uvulopalatoplasty

Vocal cord paralysis

Sinus
Aerosinusitis

Allergic sinusitis

Barosinusitis

Common cold

Frontal sinus hematoma

Haller cell mucocoele

Nasal polyps

Recurrent frontal sinus barotrauma

Sinus barotrauma

Sinus polyp

Sinusitis
   Recurrent sinusitis and impairment of eustachian tube function in air passengers and crew. 1990 Jul;61:662-5.

Sphenoid sinus pneumocele

Sphenoid sinusitis

Teeth
Barodontalgia

Bruxism

Jaw fixation
   YTFS: [Hypertension and jaw fixation in traveller]. 1975 Jan;46(1):93.

Vertigo

Vertigo
Benign paroxysmal positional vertigo
**Chronic disequilibrium**

**Vertigo**

**Exam**

**Cardiovascular**

**Blood pressure**
Vasomotor factors as applied to the selection of applicants for flying training. 1936 Mar;7(1):12-17.

**Electrocardiograph**
The place of the electrocardiograph in examination for flying. 1939 Mar;10(1):31-43.
Some limitations of the electrocardiogram in the physical examination for flying. 1942 Mar;13(1):26-35.
Electrocardiography in the selection of aircrew members. 1956 Jun;27(3):221-5.

**General**
Examination of the heart in pilots. 1933 Dec;4(4):136-45.

**Schneider index**
Fatigue - its relation to and the value of the Schneider index. 1937 Mar;8(1):30-6.

**Form**

**British**

**French**

**German**

**General**

**AAC-British RAF**

**Civilian**

**Europe**

**FAA**

**General**

**Great Britain**
The medical examination of civilian aviators in Great Britain. 1930 Sep;1(3):103-21.

**Jet flight**
The role of physical standards in jet and rocket aircraft flight. 1958 Sep;29(9):631-40.

**Military / DoC**

**Occupational**
The measurement of physiological values in industry. 1930 Dec;1(4):237-94.
South Africa


US

Physical standards for aircraft pilots tentative revision. 1935 Jun;6(2):35-44.
Tentative revision of physical standards for aircraft pilots (continued). 1935 Sep;6(3):71-94.

Hearing


Neurologic

The role of neurology in determining one's physical fitness for flying. 1933 Sep;4(3):74-90.

Psychological

Physical examination of aviators including notes on psychiatry and personality tests. 1931 Mar;2(1):23-8.

Screening

Screening tests
YTFS: [Screening tests]. 1986 May;57(5):487.

Vision

Ocular requirements for flying in the U. S. Army. 1933 Sep;4(3):106-10.

Depth perception
Human factors in the visual examination of aviators. 1946 Feb;17(1):100-3.

General

Glaucoma

Motility

Refraction

US

Various

Gastroenterologic

Colon
Adenomatous polyposis
Total colectomy with mucosal proctectomy and ileoanal anastomosis--An important surgical option in the aviator with premalignant disease of the colon. 1983 Dec;54(12):1119-1122.

Chronic appendicitis

Crohn's disease
Diverticulitis
- YTFS: Acute diverticulitis. 2002 Sep;73(9):934-5.

Flatus

Ulcerative colitis

Esophagus
Achalasia

Eosinophilic esophagitis

Esophageal leiomyoma

Reflux esophagitis

Gall bladder
Cholecystitis

Cholelithiasis

Primary sclerosing cholangitis

General
Heme positive stools

Hemidiaphragmatic paralysis

Sorbitol diarrhea

Intestine
Calcified omental hematoma

Celiac disease

Duodenal ulcer

Irritable bowel syndrome

Meckel's diverticulum

Ischemia
Acute gastrointestinal hemorrhage
Liver

*Elevated transaminase*

YTFS: A flyer with elevated LFTs. 2007 Apr;78(4):442-3.

*Hepatic hemangioma*


*Hereditary hemochromatosis*


*Hyperbilirubinemia*


*Sarcoidosis*


Mouth

*Dysguesia*


*Leukoplakia*


Pancreas

*Acute pancreatitis*


Spleen

*Splenosis*


Stomach

*Duodenal ulcer*


*H. pylori positive peptic ulcer disease*


*Peptic ulcer disease*


*Upper gastrointestinal bleeding*


General

*Statistics*


*Diet*

*Atkins diet*


*Nutritional supplements*


*Supplements*


*Exercise*

*Exercise prescription*


*Physical activity*

Medication

Immunizations
YTFS: [Immunizations]. 1982 May;53(5):508.

Medication side effects

Nerve agent prophylaxis

Overweight

Overweight
YTFS: [Herbal supplement use]. 1999 Sep;70(9):934-5.
Co-morbid conditions in overweight and obese airmen: Trends and aeromedical implications. 2007 Jul;78(7):702–705.

Smoking

Smoking cessation program

Smoking cessation therapy

Gynecologic

Cervix

Cervical intraepithelial neoplasia

Hormone cycle

Depot contraceptive use
YTFS: [Depot contraceptive use]. 1985 Dec;56(12):1231.

Luteal phase deficiency

Menstrual irregularity

Pregnancy

Pregnancy
YTFS: Abdominal pain that has lasted 3 days. 1993 Jan;64(1):82-3.

Uterus

Asherman's disease

Benign cystic teratoma

Endometriosis

Hematologic

Anemia

Anemia

Hemolytic anemia
Microangiopathic hemolytic anemia

Pernicious anemia

Coagulopathy
Activated protein C resistance

Congenital dysfibrinogenemia

Factor V Leiden
AMRTF: Transient ischemic attack in an aviator with patent foramen ovale and Factor V Leiden. 2003 Dec;74(12):1303-5.

Hemoglobin
Beta-thalassemia
YTFS: Sickle cell trait and beta-thalassemia. 1997 Mar;68(3):244-5.

Hypoxemia
YTFS: [Hemoglobin oxygen association]. 1977 Sep;48(9):889.

Methemoglobinemia
AMRTF: A special operations person with methemoglobinemia is discussed, with attention to operation of nuclear weapons. 1989 May;60(5):465-6.

Sickle cell trait
YTFS: Sickle cell trait and beta-thalassemia. 1997 Mar;68(3):244-5.

Iron
Hemochromatosis

Platelet
Essential thrombocytosis

Idiopathic thrombocytopenic purpura

Thrombocytopenia

Polycythemia
Polycythemia

Secondary polycythemia
**Infectious**

**Bacteria**

*Bartonellosis*

*Campylobacter enteritis*

*Chancroid*

*Chlamydial infection*

*Cholera*

*Ehrlichiosis*

*Gonococcal arthritis*
- Case reports. 1935 Sep;6(3):95-7.

*Legionnaires' disease*

*Plague*

*Rocky Mountain spotted fever*

*Staphylococcal sepsis*

*Toxic epidermal necrolysis*

**Fungus**

*Coccidioidomycosis*

*Histoplasmosis*

**Malaria**

*Falciparum malaria*

*Malaria*
- YTFS: Malaria. 2016 Jan;87(1):78-81.
Malaria chemoprophylaxis

Mycobacteria
Active pulmonary tuberculosis

Latent tuberculosis

Nontuberculous mycobacteria infection

Scrofula

Tuberculosis
YTFS: [Tuberculosis]. 1997 Sep;68(9):866-867.

Parasite
Amebiasis

Amoebic dysentery

Anisakiasis
YTFS: [Malaria, schistosomiasis, bartonellosis, anisakiasis]. 1986 Jan;57(1):89.

Chagas disease

Giardiasis

Hookworm infection
YTFS: [Hookworm infection]. 1997 Jul;68(7):609-610.

Intestinal nematode infection

Lymphatic filariasis

Schistosomiasis
YTFS: [Malaria, schistosomiasis, bartonellosis, anisakiasis]. 1986 Jan;57(1):89.

Strongyloidiasis

Toxoplasmosis

Visceral leishmaniasis

Spirochete
Leptospirosis
Lyme disease

Syphilis
YTFS: [Syphilis]. 1983 Dec;54(12):1136.

Tertiary syphilis
Case reports. 1935 Sep;6(3):95-7.

Various

Disinsection

Sexually transmitted infection
YTFS: [Sexually transmitted infection]. 1983 Nov;54(11):1053.

Travel-related infectious disease

Various

Virus

AIDS

Dengue fever

Genital herpes

Hand, foot, and mouth disease

Hepatitis A
YTFS: [Hepatitis A]. 1988 May;59(5):460-1.

Hepatitis C

Herpes simplex
YTFS: [Herpes simplex virus infection]. 1990 Dec;61(12):1165-6.

Herpes zoster

Measles
YTFS: Modified measles in a commercial/reserve component pilot. 2006 Dec;77(12):1294-5.

Mumps

Rabies
Sandfly fever

Smallpox vaccination

Varicella

Viral hepatitis

West Nile viral meningitis

Musculoskeletal

Amputation
Amputation

Arm prosthesis

Ankle
Achilles tendonitis
YTFS: [Running overuse injuries]. 1988 Feb;59(2):188.

Arm
Lateral epicondylitis

Radial nerve neuropraxia
YTFS: A 29-year-old F-16 pilot in your Air National Guard unit has just returned from combat survival training and presents to your clinic with complaints about his left arm. 1993 Jun;64(6):572.

General
Exercise rhabdomyolysis

Sports medicine

Hand
Fingertip crush injury

Ganglion cyst
YTFS: [Hand mass]. 1989 Dec;60(12):1231-2.

Metacarpal fracture

Hip
Hip replacement

Joint replacement
Return to flight status following total hip replacement: A case report. 2002 Jul;73(7):709-12.

Knee
Chondromalacia patellae
YTFS: [Running overuse injuries]. 1988 Feb;59(2):188.
Osteochondritis dissecans

Leg
Osteosarcoma
Tibial tendonitis
YTFS: [Running overuse injuries]. 1988 Feb;59(2):188.

Shoulder
Clavicle fracture
YTFS: [Clavicle fracture]. 1993 Sep;64(9):868-9.
Shoulder weakness
Supraspinatus muscle tear
Supraspinatus tendinitis

Spine
Vertebral fracture

Spine, cervical
Avulsion fracture of C5
Cervical degenerative joint disease and total disc arthroplasty
Cervical herniated nucleus pulposis
Cervical intervertebral disc protrusion
Cervical radiculopathy
Neck pain
Scalenus anticus / cervical rib syndrome

Spine, lumbar
Acute low back pain
YTFS: Acute low back pain. 2015 Sep;86(9):842-5.
Lumbar disc prolapse
Lumbar herniated nucleus pulposis
Lumbar radiculopathy
Lumbar spinal stenosis
Lumbar vertebral fracture
Sacroiliitis
Spine, thoracic

Vertebral compression fracture

Vertebral fracture

Neurologic

Loss of consciousness

Brain

Chiari-1 malformation

Colloid cyst

Encephalitis

Herpes meningitis

Intracerebral hemorrhage

Juxtasellar mass

Parkinson’s disease

Pneumocephalus

Suprasellar mass

Tuberous sclerosis

Various

White matter hyperintensities

Cognitive disorder

Benign transient confusional state

Chronic fatigue syndrome
YTFS: [Chronic fatigue syndrome]. 1995 Sep;66(9):906-907.
TAC: Chronic fatigue syndrome and the aviator. 2000 Sep;71(9):965.

Concentration deficit
Transient global amnesia

Headache
 Cluster headache
YTFS: [Cluster headache]. 1985 Jan;56(1):84.

Exertional migraine

Migraine

Migraine aura without headache
YTFS: Migraine aura without headache. 2012 Dec;83(12):1194-5.

Occipital migraine
Clinical aviation and aerospace medicine: Aeromedical consultation service case reports: Occipital migraine.

Ophthalmic migraine

Pseudotumor cerebri

Various
YTFS: [Headache]. 1987 May;58(5):482.

Ischemia
Amaurosis fugax

Cerebral infarction

Cerebral vascular disease

Frontal lobe infarction

Stroke

Transient ischemic attack
AMRTF: Transient ischemic attack in an aviator with patent foramen ovale and Factor V Leiden. 2003 Dec;74(12):1303-5.

Multiple sclerosis
Multiple sclerosis

Muscular dystrophy
Muscular dystrophy
Myasthenia gravis

Myasthenia gravis
Myasthenia gravis and return to flying status. 2010 Jan;81(1):69–73.

Neurovascular

Arterial gas embolism

Arteriovenous malformation

Cavernous venous angioma

Cerebellar artery aneurysm

Cerebral aneurysm

Internal carotid artery insufficiency

Vertebral artery occlusion

Peripheral nerve

Bell’s palsy

Common peroneal neuropathy

Complex regional pain syndrome

Miller-Fischer syndrome

Peripheral neuroepithelioma

Peripheral neuropathy

Thoracic outlet syndrome

Tomaculous neuropathy

Ulnar nerve entrapment

Seizure

Complex partial seizures

Epilepsy
Clinical aviation and aerospace medicine: Epilepsy and medical examinations of flight personnel, importance and difficulty of diagnosis. 1971 Aug;42(8):889-90.

YTFS: [Epilepsy]. 1978 Apr;49(4):646.

YTFS: Epilepsy. 2015 May;86(5):500-3.

**Gelastic seizure**


**Isoniazid related seizure**


**Posttraumatic epilepsy**


**Seizure**


YTFS: Considering the differential diagnosis of seizures, a flight surgeon does not need an exhaustive list but rather a focus on the most common causes. 2000 Dec;71(12):1256-7.

YTFS: Prostate cancer, erectile dysfunction, and seizure. 2009 Jul;80(7):670-1.

**Sleep deprivation related seizure**

Sleep deprivation: Neurological and electroencephalographic effects. 1964 Sep;35(9):888-90.

**Syncope vs seizure**


**Temporal lobe epilepsy**


**Tonic-clonic seizure**


**Sleep disorder**

**Excessive daytime sleepiness**


**Hypersomnia**

Idiopathic hypersomnia in an aircrew member. 1999 Aug;70(8):797-801.

**Insomnia**


**Kleine-Levin syndrome**


**Narcolepsy**


**Obstructive sleep apnea**

Obstructive sleep apnea-an air safety risk. 1997 Dec;68(12):1139-43.


**Restless legs syndrome**

**Somnambulism**

**Spinal cord**

*Meningocele*

**Spine fracture**

**Trauma**

*Cerebral contusion*
PET scan as an aid for the return of a head-injured aviator to flying duty. 2006 Oct;77(10):1080–1082.

*Closed head injury*

*Extradural hemorrhage*

*Parietal skull fracture*

*Postconcussion syndrome*

*Posttraumatic amnesia*
AMRTF: An aviator with head trauma and post-traumatic amnesia The risk of post-traumatic epilepsy and aeromedical disposition are discussed. 1989 Oct;60(10 Pt 1):1016-7.

*Subarachnoid hemorrhage*
Spontaneous subarachnoid hemorrhage occurring in a pilot during flight. 1945 Apr;16(2):91-5.

*Subdural hematoma*

*Traumatic brain injury*

**Ophthalmic**

*Color vision*

*Color vision deficiency*
Certain eye factors in examination of pilots. 1930 Sep;1(3):166-70.

*Cornea*

*Contact lens-related ulcerative keratitis*

*Corneal dystrophy*

*Corneal lesion*

*Keratoconus*
Clinical aviation and aerospace medicine: Keratoconus in USAF flying personnel. 1972 Sep;43(9):1027-30.

Myopia
Acquired myopia in airline pilots. 1957 Dec;28(6):559-68.

Thermal keratoplasty

Traumatic hyphema

Depth perception
Defective stereopsis

Depth perception disorders
Monocular vision and other peculiar phases of flying as regards depth perception. 1932 Sep;3(3):194-200.
Observations on depth perception and visual acuity. 1933 Sep;4(3):103-5.

Glaucoma
Acute narrow-angle glaucoma

Glaucoma

Ocular hypertension

Posner-Schlossman syndrome

Iris
Anisocoria

Iridodialysis

Unilateral mydriasis

Lens
Aphakia
Aphakia and artificial lens implants in the civil airman population. 1993 Oct;64(10):932-8.

Cataract

Motility disorder
Diplopia

Heterotropia
**Internuclear ophthalmoplegia**

**Motility**

**Phorias and diplopia**
Certain eye factors in examination of pilots. 1930 Sep;1(3):166-70.

**Tolosa-Hunt syndrome**

**Night vision**

**Night vision deficiency**

**Optic nerve**

**Nonarteritic ischemic optic neuropathy**

**Optic atrophy**

**Optic neuritis**
YTFS: Optic neuritis. 2015 Sep;86(9):845-8.

**Oscillopsia**

**Oscillopsia**

**Retina**

**Central serous chorioretinopathy**
Fighter pilot with recurrent central serous chorioretinopathy. 2016 Oct;87(10):901-5.
Treatment and monitoring of central serous chorioretinopathy in pilots. 2016 Dec;87(12):1041-4.

**Chorioretinitis**

**Drusen**

**Maculopathy**

**Nonischemic central retinal vein occlusion**

**Optic disc swelling**
Medical waiver for flying after microvascular decompression for optic disc swelling. 2011 Feb;82(2):137–9.
Pigment dispersion syndrome

Primary pigmentary degeneration

Retinal detachment

Retinal hole with operculum
   YTFS: A retinal hole with operculum. 2006 May;77(5):559-60.

Retinal injury
   Blue laser induced retinal injury in a commercial pilot at 1300 ft. 2016 Jan;87(1):69-70.

Retinal vein occlusion

Retinitis pigmentosa

Sclera
Episcleritis
   Episcleritis in a flying officer. 1945 Apr;16(2):96-8.

Uveal tract
Tuberculous uveitis

Uveitis

Visual acuity
Age-related vision changes

Medication effects on vision

Proptosis

Vision correction

Psychologic
Alcohol disorder
Alcohol abuse

Alcohol effects

Alcohol use

Alcoholism
Anxiety disorder

Anxiety

Anxiety disorder

Flight related anxiety

Flying phobia

Panic disorder

Post traumatic stress disorder

Attention deficit hyperactivity disorder

Attention deficit hyperactivity disorder

Bipolar disorder

Bipolar disorder

Eating disorder

Bulimia

Eating disorder

Intentional disorder

Factitious disorder

Malingering

Mood disorder

Aviation suicide

Depressive disorder

Major depressive episode
Major depression and fitness to fly by different aviation authorities. 2012 Sep;83(9):909–11.

Manic-depressive illness

Menopause

Suicidal behavior
YTFS: [Suicidal behavior]. 1985 Feb;56(2):182.

Psychologic Journal of the Aerospace Medical Association
Suicide attempt

Personality

Obsessive-compulsive personality disorder

Personality disorder

Antisocial personality

Antisocial personality disorder
Antisocial personality disorder and medical certification. 2007 Feb;78(2):145–146.

Codependency

Compulsive sexual behavior

Gender dysphoria

Psychosis

Acute paranoid schizophrenic reaction

Brief reactive psychosis

Iatrogenic delirium

Psychosis
Clinical aviation and aerospace medicine: Case report of an in-flight incident involving an aircraft commander with a psychiatric illness. 1974 Mar;45(3):316-7.

Schizophrenia

Somatoform disorder

Hysterical deafness

Hysterical seizures

Psychophysiological false myopia

Psychosomatic disorder

Psychosomatic dizziness

Psychosomatic vertigo

Somatization disorder

**Therapy**

*Marital counseling*

YTFS: Marital counseling. 2013 Jan;84(1):80-1.

**Various**


### Pulmonary

**Alpha-1 antitrypsin deficiency**


**Atelectasis**


**Cystic fibrosis**


**Hypersensitivity pneumonitis**


**Oxygen atelectasis**


**Pneumoconiosis**


**Pulmonary alveolar proteinosis**


**Pulmonary arterial hypertension**

YTFS: Shortness of breath. 2016 Sep;87(9):833-5.

**Pulmonary sequestration**


**Salt-water aspiration syndrome**


**Smoking effects**


### Asthma

**Asthma**

A case of 43-year-old fighter pilot with bronchial asthma. 1999 Sep;70(9):925-7.


**Occupational asthma**

YTFS: Isocyanates are the most common cause of occupational asthma. 1990 Aug;61(8):765-6.


### Lung mass

**Bronchogenic cyst**


**Fungal cavitary lesion**


**Pectus excavatum**

Pulmonary blebs

Pulmonary infarction

Serous cyst of the pericardium

Solitary pulmonary nodule

Pneumothorax
Pneumomediastinum
   Pneumomediastinum in student aviators: 10 cases with return to flying duty. 2005 Jan;76(1):63–65.

Pneumothorax
   Expansion of postoperative pneumothorax and pneumomediastinum: Determining when it is safe to fly. 2010 Apr;81(4):423–6.

Primary spontaneous pneumothorax

Pulmonary cyst

Recurrent spontaneous pneumothorax

Spontaneous pneumothorax

Sarcoidosis
Pulmonary sarcoidosis

Sarcoidosis
   YTFS: [Sarcoidosis]. 1989 Jul;60(7):718.

Renal

Asymptomatic hematuria

Chronic glomerulonephritis
Ectopic kidney

Fibrous dysplasia

IgA nephropathy

Medullary sponge kidney

Mesangiocapillary glomerulonephritis

Polycystic kidney disease

Renal calyceal diverticulum

Retroperitoneal fibrosis

Rheumatologic

General
Behçet's syndrome

Mixed connective tissue disease

Polymyalgia rheumatica

Raynaud's disease

Systemic lupus erythematosus

Joint
Palindromic rheumatism
YTFS. [Palindromic rheumatism]. 1996 Apr;67(4):381.

Parvovirus-associated polyarthritis

Psoriatic arthritis

Reactive arthritis
HLA B27 positive helicopter pilot with reactive arthritis responsive to sulfasalazine 1988 Jul;59(7):653-4.

Rheumatoid arthritis

Spine
Ankylosing spondylitis

Rheumatoid spondylitis
Toxic

Asbestos

Asbestos exposure

Carbon monoxide

Carbon monoxide exposure
YTFS: Carbon monoxide poisoning. 2007 Sep;78(9):911-12.

Drug

Alcohol ingestion

Anabolic steroid use

Anthracylene

Anti-malarials

Caffeine ingestion

Cocaine exposure

Dramamine use

Hypervitaminosis A

Niacin flushing

Nicotine ingestion

Phenylpropanolamine exposure

Streptomycin vestibular disturbance

Vitamin A toxicity

Ingested

Ciguatera intoxication
YTFS: 29-yr-old pilot, accompanied by his wife and 6-yr-old boy, each ill with nausea, abdominal cramping and watery diarrhea. 2001 Feb;72(2):146-7.

Jet fuel intoxication

Inhaled

Toxic gases

Various gases
YTFS: [Chemical and radiation exposure in space]. 1985 Aug;56(8):820.
Inorganic

**Hydrazine exposure**
- YTFS: [Hydrazine exposure]. 1999 Apr;70(5):530-1.

**Hydrofluoric acid exposure**

**Isocyanates**
- YTFS: Isocyanates are the most common cause of occupational asthma. 1990 Aug;61(8):765-6.

**Lead poisoning**

**Mercury exposure**

**Zinc chloride (grenade smoke)**

Ionizing Radiation

**Ionizing radiation exposure**

**Nuclear blast**

**Radiation sickness**

**Radon exposure**

Organic

**Aromatic hydrocarbon exposure**

**Methyl ethyl ketone exposure**

**Methylenedianiline resin exposure**

**n-Hexane exposure**

**Organophosphate exposure**

**Pesticide exposure**

**Polychlorinated biphenyl exposure**

**Trichloroethylene exposure**

Organophosphate

**Organophosphate exposure**
Pesticide toxicity


RF radiation

Radiofrequency microwave radiation exposure

Exposure to radio-frequency radiation from an aircraft radar unit. 1980 Nov;51(11):1243-1244.

Traumatic

Animal

Dog bite

Stingray injury

Arthropod

Scorpion envenomation

Blast

Blast effects

Nuclear detonation injury

Blunt

Blunt neck trauma

Cold

Cold stress

Hypothermia

Flash blindness

Nuclear blast

Heat

Heat illness

Heat stress

Heat stroke

Thermal burn injury

Laser

Laser injury

Noise

Noise exposure
Penetrating chest trauma


Vibration exposure


Vibrational injury to fingers


Urologic

Bladder

Urethritis


Urinary tract infection


Hematuria

Hematuria


Microhematuria


Hernia

Hernia

Laparoscopic inguinal hernioplasty in aviators. 2005 Feb;76(2):141–143.

Penis

Erectile dysfunction

YTFS: Prostate cancer, erectile dysfunction, and seizure. 2009 Jul;80(7):670-1.
YTFS: Erectile dysfunction. 2016 Feb;87(2):152-5.

Priapism


Prostate

Benign prostatic hypertrophy


Chronic prostatitis


Urolithiasis

Cystathioninuria


Nephrolithiasis


Recurrence nephrolithiasis

Renal colic

Retained nephrolithiasis

Urolithiasis