

Anabolic Androgenic Steroid Abuse In Young Males - Anabolic-Androgenic Steroid Use in Sports, Health, and Society

Anabolic androgenic steroid abuse in young males W. de Ronde, D. L. Smit Published 1 March 2020 Medicine Endocrine Connections TLDR This review summarizes 10 years experience with male abusers of anabolic androgenic steroids (AAS) and shares the views on the management of common health problems associated with AAS abuse. Expand View PDF

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Anabolic androgenic steroid abuse in young males - ResearchGate

Reminder of important clinical lesson

CASE REPORT

Anabolic steroids abuse-induced cardiomyopathy and ischaemic stroke in a young male patient

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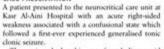
SUMMARY

We report a case of a 37-year-old man presented with acute stroke and hepatorenal impairment which were associated with anabolic-androgenic steroids (AAS) abuse over 2 years. Despite the absence of apparent symptoms and signs of congestive heart failure at presentation, an AAS-induced dilated cardiomyopathy with multiple thrombi in the left ventricle was attributed to be the underlying cause of his condition. Awareness of the complications of AAS led to the prompt treatment of the initially unrecognised dilated cardiomyopathy, and improved the liver and kidney functions. However, the patient was exposed to a second severe ischaemic event, which led to his death. This unique and complex presentation of AAS complications opens for better recognition and treatment of their potentially fatal effects.

BACKGROUND

The abuse of anabolic-androgenic steroids (AAS) has increased in recent years, being not confined only to bodybuilders or high-level sportsame but also spread to casual fitness enthusiasts and subelite sportsamen and even women. Supraphysiological doses and high-frequency usage of AAS may cause a wide spectrum of clinical manifestations which are usually ignored or at best unfollowed, though some may be life-threatening. A literature search revealed few case reports that suggested an association of intracoronary thrombosis, suddem death, myocardial necrosis, cardiomyopathy and stroke as possible consequence of ASS overuse. We report a particular case with a clinical scenario which indicates a strong association between ASS abuse and fatal cerebrocardio manifestations. A hypothesis for the underlying causation of these fatal manifestations is further addressed.

CASE PRESENTATION



The patient had a history of anabolic steroid abuse over the past 2 years. The most frequently used anabolic steroids were: methandienone (active ingredient) and methenolone acetate as reported by the caregiver. There was no history of alcohol or other substance abuse. The medical and family histories were unremarkable.

On examination, the patient was lethargic and confused. General examination revealed normal blood pressure and temperature. The patient had sinus tachycardia (police rate was 120/min/s, mild bilateral lower limb pitting oedema, but with no evidence of jugular venous congestion or bilateral basal crepitation. Also the patient had an enlarged tender liver with no stigmata of chronic liver disease. Neurological examination revealed right-sided hemiparesis (grade 3) with right-sided facial weakness.

INVESTIGATIONS

Laboratory testing showed increased haemoglobin concentration (18 gm/dL), increased serum transsminases (aspartate aminotransferase, 280 IU/L; alanine aminotransferase, 310 IU/L), coagulopathy (International Normalised Ratio 1.6), hyperbilirubinemia (total bilirubin 2 mg/dL), renal impairment (ceatinine 3.03 mg/dL, urea 110 mg/dL), hypocatraemia (122 mmobl.) and hyperkalaemia (5.8 mmobl.). Virologs, drug screen and intmune profile were negative and thrytoid functions were within normal range.

Initial brain CT scan revealed two lesions, one less hypodense than the other. A diagnosis of chronic infaction in the left frontal lobe and a sub-acute left tempocoparietal infaction was proposed (figure 1). Further beain imaging with MRI confirmed such results. EEG did not elsit epileptiform activities and chest X-ray showed augmented cardiothoracic index. An abdominal ultrasound revealed hepatomegaly, mild ascitis and bilateral pleural effusion in addition to grade I nephroputhy. During the performance of the abdominal ultrasound, the operator noticed intraventricular thrombus in the heart. Urgent echocardiography showed a dilated cardioemyopathy with an estimated ejection fraction of 13% and multiple thrombi in the left ventricle. Toxic cardiomyopathy secondary to AAS over use was suspected.

DIFFERENTIAL DIAGNOSIS

A diagnosis of severe toxic cardiomyopathy associated with anabolic steroids was made after ruling out other causes of non-ischaemic dilated cardiomyopathy, including infectious, autoimmune and metabolic causes.

TREATMEN

After initial correction of hyponatraemia with slow isotonic saline infusion, symptoms and signs of congestive heart failure became evident. The patient was transferred to the intensive care unit

Shamloul RM, et al. 8MI Case Rep 2014. doi:10.1136/bor-2013-203033

Abusing steroids can cause heart attacks and strokes, even in young athletes. Here's how: Steroid use can lead to a condition called atherosclerosis, which causes fat deposits inside arteries.



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Consequences of Anabolic-Androgenic Steroid Abuse in Males; Sexual and .



Child sexual abuse associated with anabolic androgenic steroid use. Child sexual abuse associated with anabolic androgenic steroid use Am J Psychiatry. 1996 Oct;153(10):1369. doi . Male Methandrostenolone / adverse effects* Substances Anabolic Agents .

ADHD symptoms and use of anabolic androgenic steroids among male.

www.nature.com/scientificreports scientific reports Check for updates OPEN ADHD symptoms and use of anabolic androgenic steroids among male weightlifters Emilie Kildal^{3,271}, Bjørnar Hassel^{3,2} & Astrid Bjø Use of anabolic androgenic steroids (AAS) is associated with adverse health effects. The factors that predispose to AAS use among athletes are poorly understood, but attention deficit/hyperactivity disorder (ADHD), which is known to occur among athletes more often than in the general population is associated with risk behaviors, including substance abuse. We aimed to see if AAS use in m weightlifters was associated with ADHD symptoms, and test the link between ADHD symptoms and cognitive performance. Hundred and forty male weightlifters, 72 AAS users and 68 weightlifting controls (WLC), completed the Achenbach system of empirically based assessment (ASEBA) for ADHD symptoms and underwent cognitive examination. Self-reported ADHD symptom scores were significantly higher among AAS users compared to WLC, and scores in the range indicating clinically important ADHD was significantly more common in the AAS-using group. Age of onset of AAS use correlated inversely with ADHD scale score (r = -0.35; p = 0.003). ADHD score correlated inversely with cognitive scores for working memory (r \approx - 0.25, p < 0.001), processing speed (r \approx - 0.24, p < 0.001), verbal learning and memory (r = - 0.19, p = 0.03), and problem solving (r = - 0.20, p = 0.02). AAS use among weightlifters is associated with ADHD symptoms and corresponding lower cognitive performance. Recognising a relationship between ADHD symptoms and AAS use may guide drug prevention strategies in sports. Abbreviations Use of anabolic androgenic steroids (AAS) is a serious abuse problem among professional and recreational athletes*-1. AAS have anabolic properties, stimulating muscle growth*, and androgenic properties inducing musculine secondary sexual characterisics, and augments cognitive features like alertness*-1. However, AAS use may have serious psychological and physiological consequences, such as major mood syndromes and cardiovascular disease. The main activity of AAS in the brain occurs via activation of widely distributed cytoplasmic androgen receptors, as has been shown in animal studies. This may explain the various effects that AAS have on cognition and mental state. Part AAS use is associated with both structural brain abcommalities. AAS have on department of the properties of the properties of the properties of the properties and cognition and behavioral abnormalities. Several studies suggest an association between AAS use and

Anabolic-androgenic steroids (AAS) represent a group of heterogeneous compounds, which include testosterone (T) and its derivate substances, largely used to enhance physical performance, sense of well-being and cosmetic appearance among athletes [1, 2, 3, 4].

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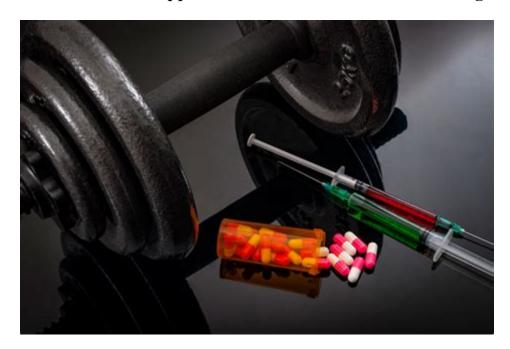
Harm Reduction in Male Patients Actively Using Anabolic Androgenic.

Harm Reduction in Male Patients
Actively Using Anabolic Androgenic
Steroids (AAS) and PerformanceEnhancing Drugs (PEDs): a Review
Alexis Bonnecaze, Thomas O'Connor,
Cynthia Burns

OAmg

Abstract Introduction: Anabolic-androgenic steroids (AASs) are a complex cluster of synthetic derivatives of testosterone. AAS abuse is considered a major public health issue since it has increased among young/adolescent males. The use of steroids has a prevalence rate of 14% in young athletes and 30-75% in professional athletes or bodybuilders.

Anabolic Steroids and Other Appearance and Performance Enhancing Drugs.



1. The administration of AAS in a dose-dependent manner significantly increases muscle strength, lean body mass, endurance, and power. The effects are primarily seen when AAS use is accompanied by a progressive training program. Evidence Category A. 2.

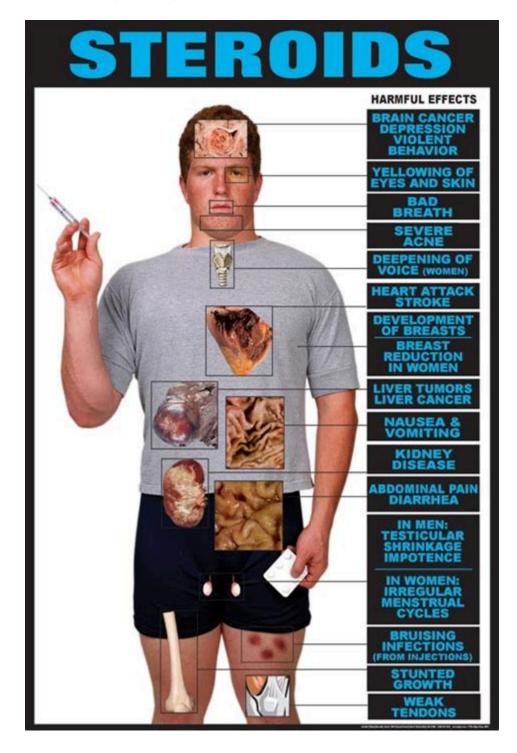
Anabolic-androgenic steroid abuse and performance-enhancing . - PubMed

Performance-enhancing agents	AAS users \geq 40 yrs (n = 67)	AAS nonusers ≥40 yrs (n = 76)	P value
Creatine	49 (73.1)	44 (57.9)	.079
Multivitamin	43 (64.2)	50 (65.8)	.862
Fish oil	39 (58.2)	51 (67.1)	.301
Tamoxifen	38 (56.7)	1 (1.3)	<.001
Amino acids	34 (50.8)	29 (38.2)	.177
Clomiphene	27 (40.3)	1 (1.3)	<.001
Anastrazole	26 (38.8)	1 (1.3)	<.001
Flaxseed oil	26 (38.8)	13 (17.1)	.005
Caffeine	26 (38.8)	29 (38.2)	.999
Human growth hormone	24 (35.8)	0 (0)	<.001
Dehydroepiandrosterone	23 (34.3)	12 (15.8)	.012
Humanchorionicgonadotropin	23 (34.3)	0 (0)	<.001
Ephedrine	19 (28.4)	10 (13.1)	.036
Clenbuterol	16 (23.9)	0 (0)	<.001
Levothyroxine	15 (22.4)	0 (0)	<.001
Tadalafil	14 (20.9)	1 (1.3)	<.001
Androstenedione	13 (19.4)	4 (5.3)	.010
Letrozole	12 (17.9)	0 (0)	<.001
Sildenafil	11 (16.4)	2 (2.6)	.007
Yohimbine	11 (16.4)	3 (4.0)	.021
Insulin	9 (13.4)	0 (0)	<.001
Insulin-like growth factors	8 (11.9)	0 (0)	.002
γ-Hydroxybutyric acid	4 (6.0)	0 (0)	.046

Abbreviation: AAS, anabolic-androgenic steroids. ^aData are no. (percentage) of survey respondents.

Anabolic-androgenic steroids abuse is on the rise among adolescent boys and young men, mostly in those seeking a 'shortcut' to an improved body image. This approach is associated with the risk of severe adverse health effects, some of which involve the liver and are linked to hepatic oxidative stress.

Anabolic Steroids: Uses, Abuse, and Side Effects - WebMD



. After a period of AAS abuse, cessation may result in anabolic steroid-induced hypogonadism (ASIH), a state of dysfunction that may involve a suppressed hypothalamic-pituitary-testicular.

Characteristics and Attitudes of Men Using Anabolic Androgenic Steroids.

Motivation for AAS Use	All, n = 2384 (%)
Improve physical appearance/gain muscle	1959 (82.17)
Improve strength	1192 (50)
Issues with self-esteem regarding body image	712 (29.87)
Bodybuilding/Physique competitions	472 (19.80)
Other	300 (12.58)
Performance in organized athletics	219 (9.19)
Peer pressure	54 (2.27)
History of being sexually abused	15 (0.63)

Anabolic androgenic steroids (AAS) abuse is a global health-related concern, as most of the related studies showed increasing trends and deleterious effects, mostly on sexual and fertility health. . (PEDs) to enhance sports, performance and /or physical appearance has progressively increased among young and middle-aged men. One of the most .

Anabolic androgenic steroid abuse in young males - PubMed

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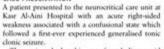
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The abuse of anabolic-androgenic steroids (AAS) has increased in recent years, being not confined only to bodybuilders or high-level sportsame but also spread to casual fitness enthusiasts and subelite sportsamen and even women.\(^1\) Supraphysiological doses and high-frequency usage of AAS may cause a wide spectrum of clinical manifestations which are usually ignored or at best unfollowed, though some may be life-threatening.\(^2\) A literature search revealed few case reports that suggested an association of intracoronary thromboss, sudden death, myocardial necrosis, cardiomyognthy and stroke as possible consequence of ASS overuse. We report a particular case with a clinical scenario which indicates a strong association between ASS abuse and fatal cerebrocardio manifestations. A hypothesis for the underlying causation of these fatal manifestations is further addressed.

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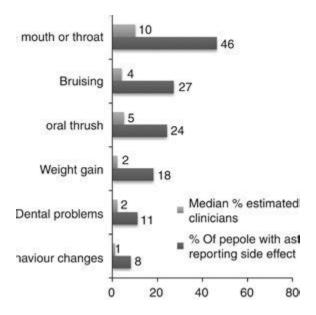
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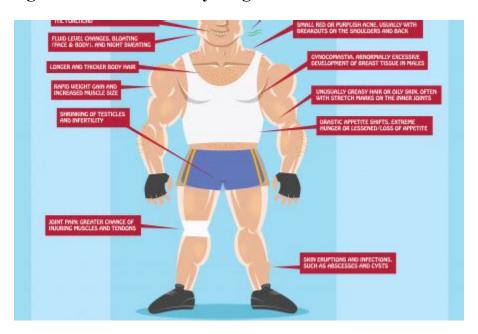
Anabolic-androgenic steroids abuse-induced seizures: A case report in a young male bodybuilder. 2022 Mar;96:22-24. doi: 10. 1016/j. seizure. 2022. 01. 010. 1 , Fadi Hallal-Peche 2 , Tara Kearney 3 , 4 Evangelia Theochari 5 Antonio Valentin 6.

Health service engagement, side effects and concerns among men with .



Various studies have been conducted and generally reflect the findings of a Youth Risk and Behavior Surveillance System study, which estimated that among U. S. high school students, 4. 9% of males.

Anabolic androgenic steroid abuse in young males



Abstract This review summarizes 10 years experience with male abusers of anabolic androgenic steroids (AAS). The typical user of AAS is male, aged between 20 and 40 and lifting weights. Illegal AAS are cheap and easily obtained via internet or local suppliers. AAS are mostly used in cycles with a duration between 6 and 18 weeks.

Teens and Steroids: A Dangerous Combo | FDA



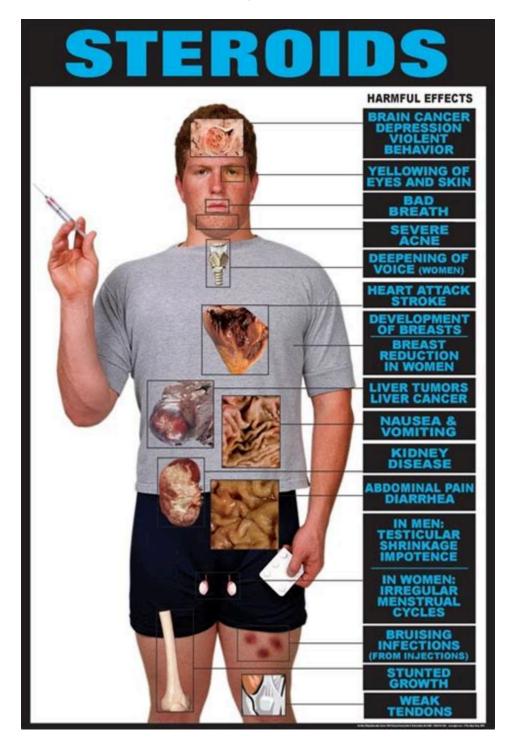
Anabolic androgenic steroid abuse in young males Willem de Ronde 1 and Diederik L Smit 1 Author information Article notes Copyright and License information PMC Disclaimer Go to: Abstract This review summarizes 10 years experience with male abusers of anabolic androgenic steroids (AAS).

Anabolic androgenic steroid abuse in young males - PMC



Anabolic-androgenic steroids, often shortened to "anabolic steroids," "steroids," or "androgens," 2,3 are the most widely misused APED. These are synthetic substances similar to the male sex hormone testosterone. They promote the growth of skeletal muscle (anabolic effects) and the development of male

The deleterious effects of anabolic androgenic steroid abuse on sexual.



1. Introduction Anabolic-androgenic steroids (AAS) are synthetic variations of Testosterone with anabolic effects. The prevalence rate of AAS use among gym attendees has been shown up to 70% [1]. Side effects of AAS are diverse, from subtle mood disturbances to multiple organ failure.

Anabolic Steroid-Induced Myocardial Infarction in a Young Male



Adolescents use a wide variety of drugs and supplements, including anabolic steroids, to improve their sports performance and physical appearance. Prevalence rates for steroid use generally range between 4% and 12% among male adolescents and between 0. 5% and 2% for female adolescents. Although the short-term health effects of anabolic steroids.

Anabolic-androgenic steroids abuse-induced seizures: A case report in a.



Background Recreational use of anabolic-androgenic steroids (AAS) is a public health concern world-wide associated with a range of physical and psychological side effects. Still, people who use AAS tend to be reluctant to seek treatment. This study aims to explore use characteristics, treatment-seeking behaviour, side effects and associated health concerns among men with AAS use. Methods The .

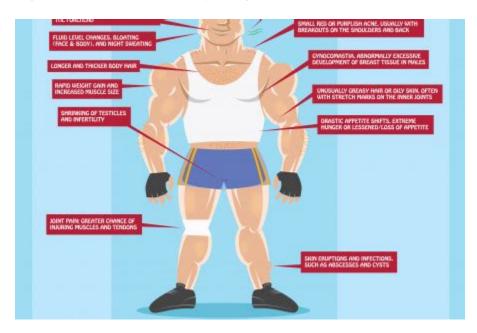
Androgenic-anabolic steroids abuse in males - PubMed

Body Image Disorders and Abuse of Anabolic-Androgenic Steroids Among Men years. * Prior to the 1980s, AAS use was largely re During the last several decades, the image of the idestricted to elite athletes. With the publication of popular alized male body in many countries has shifted toward a substantially higher level of muscularity. Bodybuildlar books on how to use these drugs, starting in the ing competitors, male models, and even children's 1980s, AAS use began to spread from the athletic world action toys (eg. "G.I. Joe") have become significantly to the general population. Today, most AAS users are not more muscular than their predecessors of the 1960s. competitive athletes but rather nonathlete weightlift Nowadays, young men are constantly exposed to ers who use AASs largely to look leaner and more mus muscular male images on magazine covers, in advercular. Within this increasing new population of AAS users Jag H. Khalisa, MS, PhD tisements, on television, and in movies. even the oldest members-those who first initiated AAS Perhaps as a consequence of these trends, young use as youths in the 1980s-are only now entering middle Branch, Division of eutics and men have become increasingly concerned with their age and beginning to experience the combined effects of long-term AAS abuse and aging. Medical Consequences. National Institute on muscularity, reflected by an increasing prevalence of "muscle dysmorphia," a form of body image disorder In their attempts to gain muscle and lose body fat, Drug Abuse, National characterized by an obsessive preoccupation with a mus-AAS users often combine highly supraphysiologic doses Bethesda, Maryland. cular appearance. 12 First described in the scientific litof AASs with other appearance- and performance erature less than 25 years ago, muscle dysmorphia has enhancing substances, such as human growth hornow become the subject of numerous reports and has roid hormones, insulin, denbuterol, and other potentially toxic substances. 4 Users of AASs often disbeen included as an official diagnosis in the American Psychiatric Association's Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5).² play additional high-risk behaviors such as the inges tion of drugs of abuse (such as cocaine and opioids), un-Approximately 2.2% of US men have been resafe sexual behaviors, and unsafe injection practices. 5,6 ported to have body dysmorphic disorder, and among. Furthermore, a large population of individuals do not inthese men with body dysmorphic disorder, 9% to 25% tentionally use illicit AASs but do use substantial amounts have muscle dysmorphia, which would suggest the of over-the-counter herbal or dietary supplements purported to enhance performance and ap pearance. The sale of such supplement A recent analysis estimated that is largely unregulated, and many prod 2.9 million to 4.0 million individuals ucts have been found to contain illegal AASs, other anabolic compounds (eg. se in the United States, nearly all of whom lective androgen receptor modulators). are male, have used AASs at some time and even toxic contaminants with no anabolic properties at all. These supple in their lives ments may therefore pose potential possibility that hundreds of thousands of US men may health problems for individuals who use these prodhave this syndrome. 2 Men with muscle dysmorphia deucts, including large numbers of men and women in the scribe dissatisfaction with their body size and shape US Armed Forces, whose consumption of such supple and are preoccupied with the idea that their body is inments is increasing and who may be unknowingly exsufficiently muscular; these men show elevated rates of posed to AASs and other potent drugs.² mood and anxiety disorders, obsessive and comput-Emerging evidence has implicated several ad sive behaviors, substance abuse, and impairm verse health effects of AAS use, including increased risk of social and occupational functioning.^{1,3} Most men with of premature death, cardiovascular disorders, psychiatmuscle dysmorphia engage in weightlifting, many of ric effects, prolonged suppression of the hypothalamic them use dietary supplements, and in 2 studies, 10 of 23 pituitary-testicular axis, and possible long-term neuro toxic effects. ^{6,8} Long-term exposure to supraphysiologic men (44%)³ and 11 of 24 men (46%)³ with muscle dysmorphia reported lifetime use of anabolic-androgenic doses of AASs has been linked to myocardial dysfunc steroids (AASs)—the family of drugs that includes testion and stroke, clinically serious cardiomyopathy, and tosterone and its many synthetic derivatives. acceleration of atherosclerotic disease in young indi-A recent analysis estimated that 2.9 million to viduals known or believed to have used AASs. 4.0.9 Also, 4.0 million individuals in the United States, nearly all of during AAS exposure, users may develop manic or by whom are male, have used AASs at some time in their pomanic symptoms, sometimes associated with aggres lives: this analysis estimated that about 1 million men in sion, violence, and even homicide. the United States have experienced AAS dependence, Users of AASs may develop protracted hypogonadwherein they continued to use AASs at high doses for ism following AAS withdrawal, which may sometimes JAMA January 3, 2017 Volume 317, Number 1

Abstract This review summarizes 10 years experience with male abusers of anabolic androgenic steroids (AAS). The typical user of AAS is male, aged between 20 and 40 and lifting weights. Illegal AAS are cheap and easily obtained via internet or local suppliers. AAS are mostly used in cycles with a duration between 6 and 18 weeks.

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Anabolic androgenic steroid abuse in young males - EC



It is estimated that over 98% of those using AAS are male. 1 These compounds have become readily available through illicit internet sources. 8 Men are commonly motivated to use AAS to improve their muscularity and strength. 7 An increasing societal emphasis on body image is believed to have contributed to increasing AAS use among men. 9, 10 Many.

Anabolic-androgenic steroids abuse-induced seizures: A case report in a .



In this article, we report the case of a 38-year-old African-American male, with a history of AAS abuse, who arrived at the emergency department with complaints of severe chest pain radiating to the left arm. An electrocardiogram (ECG) revealed ST-elevation MI (STEMI) and elevated troponin.

Impact of anabolic androgenic steroids on male sexual and . - PubMed

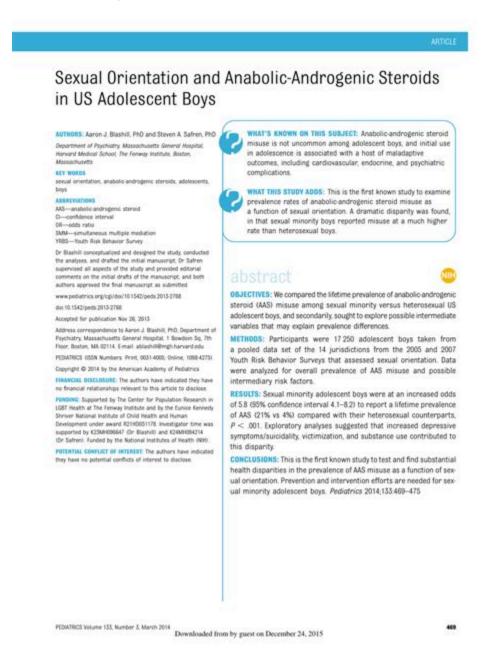
Most Common Clinical Side Effects of Anabolic-androgenic Steroids

Side Effect	Percent of Users Affected
Changes of libido	61%
Mood swings	57%
Reduced testicular volume	46%
Acne	43%
Erectile dysfunction	21%
Headaches	9%
Edema (water retention)	5%
Change in hair growth	5%

acne.org

Use of anabolic androgenic steroids (AAS) is a serious abuse problem among professional and recreational athletes 1,2,3,4. AAS have anabolic properties, stimulating muscle growth 5, and androgenic .

Impact of anabolic androgenic steroids on adolescent males



2005;28 (3 Suppl):81-4. Androgenic-anabolic steroids (AAS) is an official definition for all male sex steroid hormones, their synthetic derivatives and their active metabolites. AAS are drugs with specific therapeutic indications, yet they are popularly known because of their worldwide non-therapeutic use in a large number of healthy individuals.

Child sexual abuse associated with anabolic androgenic steroid use



The widespread adoption of anabolic androgenic steroid (AAS) use has exacerbated an emerging worldwide public health epidemic. The true lifetime prevalence of AAS use is difficult to establish, but conservative estimates range from 1% to 5% worldwide and are higher in the United States (Anawalt, 2019). Increasing social acceptance of use, ease of acquisition through the internet (Fink et al.

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