**Supplemental Digital Content 1. Search Strategy**

**MEDLINE**

|  |  |
| --- | --- |
| 1. | exp Androstanes/ or exp Androstenes/ or exp Danazol/ or exp Estranes/ or exp Norpregnenes/ or exp Oxazolone/ or exp Testosterone Congeners/ |
| 2. | exp Anabolic Agents/ or (anabolic agent\* or anabolic effect\*).mp. or (anabolic-androgenic adj1 steroid\*).mp. or (androgen# adj5 abuse).mp. |
| 3. | (anadrol or anapolon or anaprotin or anavar or andractim or androGel or andropatch or androstanazol or androstane\* or androstanolone or androstenediol or androstenedione or androstenes or androstenols or androsterone or boldione or bolasterone or boldenone or cdmt or calusterone or clostebol).mp. |
| 4. | (danazol or dehydrochlormethyltestosterone or dehydroepiandrosterone or DHEA or prasterone or desoxymethyltestosterone or dianabol or 5 alpha DHT or 5 alpha-Dihydrotestosterone or dihydrotestosterone or dromostanolone or drostanolone or epitestosterone or estranes or estrenes or estrenolone or ethylestrenol or fluoxymesterone or furazabol).mp. |
| 5. | (madol or maxibolin or MENT or mepitiostane or methalone or methane or 19-nor-methyltestosterone or methylestrenolone or mesterolone or metanabol or metandienone or methandienone or methandriol or methandrostenolone or methyltrienolone or metribolone or methyltestosterone or metenolone or methenolone or methylstanazol or mibolerone).mp. |
| 6. | (nandrolone or nerobol or norethindrone or norethisterone or norbolethone or norethandrolone or normethandrolone or norpregnenes or 19-Nortestosterone or nortestosterone).mp. |
| 7. | ((oral adj1 turinabol) or oxandrin or oxandrolone or oxazolone or oxymetholone or oxymethalone or oxymesterone or prometholone or prostanozol).mp. |
| 8. | (stanolone or stanozolol or stenbolone or stromba or sustanon or testim or testopel or testosterone or tetrahydrogestrinone or trenbolone or trestolone or winstrol).mp. |
| 9. | (etiocholanolone or noretiocholanolone or formebolone or formyldienolone or gestrinone or 4-hydroxytestosterone or testobol or mestanolone or methasterone or methasteron or superdrol or methyldienolone or norandrostenedione or norandrostenediol or norandrosterone or norboletone or genebol or norclostebol or anabol 4-19 or nilevar or oxabolone or quinbolone or 1-Testo or designer steroid\*).mp. |
| 10. | or/1-9 |
| 11. | exp Physical Conditioning, Human/ or exp Exercise/ or exp Sports/ or (olympic\* or physical strength or body strength or athlet\* or runners or swimmers or cyclists or baseball or basketball or soccer or football or sport# or ergogeni\* or untrained or novice\*).ti,ab. |
| 12. | exp Resistance Training/ or (bodybuild\* or weightlift\*).ti,ab. or (body adj1 builder\*).ti,ab. or (resistance adj2 training).ti,ab. or (weight adj2 lift\*).ti,ab. or exercise.ti,ab. |
| 13. | (performance or endurance or training).ti,ab. |
| 14. | exp Torque/ or torque.ti,ab. |
| 15. | (physical or fitness).ti,ab. |
| 16. | (vo2 or volume oxygen or body composition or lean body mass or muscle mass).mp. |
| 17. | exp Doping in Sports/ or exp Performance-Enhancing Substances/ or doping.ti,ab. |
| 18. | (aerobic or anaerobic).mp. |
| 19. | exp Muscle Strength/ or exp Muscles/de or musc\*.ti,ab. |
| 20. | or/11-19 |
| 21. | 10 and 20 |
| 22. | (randomized controlled trial or controlled clinical trial).pt. or (randomi#ed or placebo or randomly or groups).ab. or (randomi\* or trial).ti,ab. or clinical trials as topic.sh. |
| 23. | 21 and 22 |
| 24. | (aids or acquired immune deficiency or alzheimer or cancer or copd or diabet\* or hirsutism or hiv or human immunodeficiency virus or hypogonad\* or liver disease or obese or obesity or polycystic or pcos or renal disease or transsexual or transgender or trans men).ti. |
| 25. | (cows or eels or goats or horses or mice or mouse or monkeys or rat or rats or rabbit\* or rodent\* or turkeys).ti. |
| 26. | 24 or 25 |
| 27. | 23 not 26 |
| 28. | exp Animals/ not Humans.sh. |
| 29. | 27 not 28 |
| 30. | (editorial or letter or case reports or comment).pt. |
| 31. | 29 not 30 |
| 32. | limit 31 to english language |

**EMBASE**

#1.31

#1.30 AND [embase]/lim

#1.30

#1.29 AND [english]/lim

#1.29

#1.27 NOT #1.28

#1.28

note:it OR letter:it OR book:it

#1.27

#1.23 NOT #1.26

#1.26

#1.24 OR #1.25

#1.25

cows:ti OR eels:ti OR goats:ti OR horses:ti OR mice:ti OR mouse:ti OR monkeys:ti OR rat:ti OR rats:ti OR rabbit\*:ti OR rodent\*:ti OR turkeys:ti

#1.24

aids:ti OR acquired:ti AND immune:ti AND deficiency:ti OR alzheimer:ti OR cancer:ti OR copd:ti OR diabet\*:ti OR hirsutism:ti OR hiv:ti OR 'human immunodeficiency virus':ti OR hypogonad\*:ti OR 'liver disease':ti OR obese:ti OR obesity:ti OR polycystic:ti OR pcos:ti OR 'renal disease':ti OR transsexual:ti OR transgender:ti OR 'trans men':ti

#1.23

#1.21 AND #1.22

#1.22

'controlled clinical trial (topic)'/exp OR randomized:ab OR randomised:ab OR placebo:ab OR randomly:ab OR groups:ab OR trial:ab,ti OR randomi\*:ab,ti

#1.21

#1.10 AND #1.20

#1.20

#1.11 OR #1.12 OR #1.13 OR #1.14 OR #1.15 OR #1.16 OR #1.17 OR #1.18 OR #1.19

#1.19

'muscle strength'/exp OR 'muscle'/de OR musc\*:ab,ti

#1.18

aerobic OR anaerobic

#1.17

'doping'/exp OR 'performance enhancing substance'/exp OR doping:ab,ti

#1.16

'muscle mass'/exp OR 'lean body weight'/exp OR 'body composition'/exp

#1.15

vo2:ab,ti OR 'volume next/1 oxygen':ab,ti OR 'body composition':ab,ti OR 'lean body mass':ab,ti OR 'muscle mass':ab,ti

#1.14

'torque'/exp OR torque:ab,ti

#1.13

exercise:ab,ti OR performance:ab,ti OR endurance:ab,ti OR training:ab,ti

#1.12

bodybuild\* OR weightlift\* OR body NEXT/1 builder\* OR resistance NEXT/2 training OR weight NEXT/2 lift\*

#1.11

'exercise'/exp OR 'sport'/exp OR 'athlete'/exp OR olympic\* OR 'physical strength' OR 'body strength' OR athlet\* OR runners OR swimmers OR cyclists OR baseball OR basketball OR soccer OR football OR sport OR sports OR ergogeni\* OR untrained OR novice\*

#1.10

#1.1 OR #1.2 OR #1.3 OR #1.4 OR #1.5 OR #1.6 OR #1.7 OR #1.8 OR #1.9

#1.9

etiocholanolone OR noretiocholanolone OR formebolone OR formyldienolone OR gestrinone OR '4 hydroxytestosterone' OR testobol OR mestanolone OR methasterone OR methasteron OR superdrol OR methyldienolone OR norandrostenedione OR norandrostenediol OR norandrosterone OR norboletone OR genebol OR norclostebol OR 'anabol 4-19' OR nilevar OR oxabolone OR quinbolone OR '1-testo' OR designer NEXT/1 steroid\*

#1.8

stanolone OR stanozolol OR stenbolone OR stromba OR sustanon OR testim OR testopel OR testosterone OR tetrahydrogestrinone OR trenbolone OR trestolone OR winstrol

#1.7

oral NEXT/1 turinabol OR oxandrin OR oxandrolone OR oxazolone OR oxymetholone OR oxymethalone OR oxymesterone OR prometholone OR prostanozol

#1.6

nandrolone OR nerobol OR norethindrone OR norethisterone OR norbolethone OR norethandrolone OR normethandrolone OR norpregnenes OR '19-nortestosterone' OR nortestosterone

#1.5

madol OR maxibolin OR ment OR mepitiostane OR methalone OR methane OR '19-nor-methyltestosterone' OR methylestrenolone OR mesterolone OR metanabol OR metandienone OR methandienone OR methandriol OR methandrostenolone OR methyltrienolone OR metribolone OR methyltestosterone OR metenolone OR methenolone OR methylstanazol OR mibolerone

#1.4

danazol OR dehydrochlormethyltestosterone OR dehydroepiandrosterone OR dhea OR prasterone OR desoxymethyltestosterone OR dianabol OR '5 alpha dht' OR '5 alpha dihydrotestosterone' OR dihydrotestosterone OR dromostanolone OR drostanolone OR epitestosterone OR estranes OR estrenes OR estrenolone OR ethylestrenol OR fluoxymesterone OR furazabol

#1.3

anadrol OR anapolon OR anaprotin OR anavar OR andractim OR androgel OR andropatch OR androstanazol OR androstane\*OR androstanolone OR androstenediol OR androstenedione OR androstenes OR androstenols OR androsterone OR boldione OR bolasterone OR boldenone OR cdmt OR calusterone OR clostebol

#1.2

'anabolic agent' OR 'anabolic agents' OR anabolic NEXT/1 effect\* OR 'anabolic androgenic' NEXT/1 steroid\* OR androgen\* NEAR/5 abuse

#1.1

'androgen'/exp OR 'estrane derivative'/exp AND 'pregnane derivative'/exp OR 'oxazolone'/exp OR 'anabolic agent'/exp

**Cochrane CENTRAL**

1. (anabolic agent\* or anabolic effect\* or (anabolic-androgenic adj1 steroid\*) or (androgen# adj5 abuse)).mp.   
2. (anadrol or anapolon or anaprotin or anavar or andractim or androGel or andropatch or androstanazol or androstane\* or androstanolone or androstenediol or androstenedione or androstenes or androstenols or androsterone or boldione or bolasterone or boldenone or cdmt or calusterone or clostebol).mp.   
3. (danazol or dehydrochlormethyltestosterone or dehydroepiandrosterone or DHEA or prasterone or desoxymethyltestosterone or dianabol or 5 alpha DHT or 5 alpha-Dihydrotestosterone or dihydrotestosterone or dromostanolone or drostanolone or epitestosterone or estranes or estrenes or estrenolone or ethylestrenol or fluoxymesterone or furazabol).mp.   
4. (madol or maxibolin or MENT or mepitiostane or methalone or methane or 19-nor-methyltestosterone or methylestrenolone or mesterolone or metanabol or metandienone or methandienone or methandriol or methandrostenolone or methyltrienolone or metribolone or methyltestosterone or metenolone or methenolone or methylstanazol or mibolerone).mp.   
5. (nandrolone or nerobol or norethindrone or norethisterone or norbolethone or norethandrolone or normethandrolone or norpregnenes or 19-Nortestosterone or nortestosterone).mp.   
6. ((oral adj1 turinabol) or oxandrin or oxandrolone or oxazolone or oxymetholone or oxymethalone or oxymesterone or prometholone or prostanozol).mp.   
7. (stanolone or stanozolol or stenbolone or stromba or sustanon or testim or testopel or testosterone or tetrahydrogestrinone or trenbolone or trestolone or winstrol).mp.   
8. (etiocholanolone or noretiocholanolone or formebolone or formyldienolone or gestrinone or 4-hydroxytestosterone or testobol or mestanolone or methasterone or methasteron or superdrol or methyldienolone or norandrostenedione or norandrostenediol or norandrosterone or norboletone or genebol or norclostebol or anabol 4-19 or nilevar or oxabolone or quinbolone or 1-Testo or designer steroid\*).mp.   
9. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8   
10. (olympic\* or physical strength or body strength or athlet\* or runners or swimmers or cyclists or baseball or basketball or soccer or football or sport# or ergogeni\* or untrained or novice\*).ti,ab.   
11. (bodybuild\* or weightlift\* or (body adj1 builder\*) or (resistance adj2 training) or (weight adj2 lift\*) or exercise).ti,ab.   
12. (performance or endurance or training or torque).ti,ab.   
13. (vo2 or volume oxygen or body composition or lean body mass or muscle mass).mp.   
14. doping.ti,ab.   
15. (aerobic or anaerobic).mp.   
16. musc\*.ti,ab.   
17. 10 or 11 or 12 or 13 or 14 or 15 or 16   
18. 9 and 17   
19. (aids or acquired immune deficiency or alzheimer or cancer or copd or diabet\* or hirsutism or hiv or human immunodeficiency virus or hypogonad\* or liver disease or obese or obesity or polycystic or pcos or renal disease or transsexual or transgender or trans men).ti.   
20. (cows or eels or goats or horses or mice or mouse or monkeys or rat or rats or rabbit\* or rodent\* or turkeys).ti.   
21. 19 or 20   
22. 18 not 21   
23. limit 22 to english language

**SPORTDiscus**

|  |  |  |
| --- | --- | --- |
| **#** | **Query** | **Results** |
| **S24** | **S22 AND S23** | **965** |
| **S23** | **("randomized controlled trial" or "controlled clinical trial") ) OR AB (trial OR randomi#ed or placebo or randomly or groups ) OR TI trial OR clinical W1 trial\* OR TI randomi\* OR AB randomi\*** | **139,855** |
| **S22** | **S11 AND S21** | **7,293** |
| **S21** | **S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20** | **1,317,318** |
| **S20** | **DE "DOPING in sports" OR DE "ANABOLIC steroids in sports" OR DE "BLOOD doping in sports" OR DE "GENE doping" OR DE "ATHLETES -- Drug use"** | **10,381** |
| **S19** | **(vo2 or "volume oxygen" or "body composition" or "lean body mass" or "muscle mass" ) OR musc\* OR doping** | **140,504** |
| **S18** | **((((DE "AEROBIC capacity") OR (DE "BODY composition" )) OR (DE "MUSCLE strength" OR DE "GRIP strength" OR DE "KRAUS-Weber test")) OR (DE "ANAEROBIC capacity" OR DE "MARGARIA Test of Anaerobic Power")) OR (DE "MUSCLES")** | **43,483** |
| **S17** | **TI ( physical or fitness ) OR AB ( physical or fitness )** | **145,343** |
| **S16** | **DE "TORQUE" or torque** | **6,354** |
| **S15** | **performance or endurance or training** | **345,197** |
| **S14** | **(bodybuild\* or weightlift\* ) OR body W1 builder\* OR resistance W2 training OR (weight W2 lift\*) OR exercise** | **204,197** |
| **S13** | **(olympic\* or "physical strength" or "body strength" or athlet\* or runners or swimmers or cyclists or baseball or basketball or soccer or football or sport# or ergogeni\* or ("untrained W1 novice\*)** | **1,035,109** |
| **S12** | **((DE "PHYSICAL training & conditioning" OR DE "ACROBATICS -- Training" OR DE "ALTITUDE training" OR DE "ANAEROBIC training" OR DE "ARCHERY -- Training" OR DE "BADMINTON (Game) -- Training" OR DE "BASE training (Exercise)" OR DE "BASEBALL -- Training" OR DE "BASKETBALL -- Training" OR DE "BICYCLE racing -- Training" OR DE "BODYBUILDING -- Training" OR DE "BOWLING -- Training" OR DE "BOXING -- Training" OR DE "BULLFIGHT training & conditioning" OR DE "BUNGEE jumping training & conditioning" OR DE "CANOES & canoeing -- Training" OR DE "CAVING training & conditioning" OR DE "COMPOUND exercises" OR DE "CONTRAST training (Physical training & conditioning)" OR DE "COXSWAINING -- Training" OR DE "CRICKET training & conditioning" OR DE "CROSS-training (Sports)" OR DE "CYCLING -- Training" OR DE "DANCE training & conditioning" OR DE "DEEP diving training & conditioning" OR DE "DIVING -- Training" OR DE "DOGSLEDDING training & conditioning" OR DE "ENDURANCE sports -- Training" OR DE "FENCING -- Training" OR DE "FIELD hockey training & conditioning" OR DE "FOOTBALL -- Training" OR DE "FUNCTIONAL training" OR DE "GLIDING & soaring training & conditioning" OR DE "GOLF -- Training" OR DE "GYMNASTICS -- Training" OR DE "HANDBALL training & conditioning" OR DE "HIKING training & conditioning" OR DE "HOCKEY -- Training" OR DE "HUNTING training & conditioning" OR DE "INTERVAL training" OR DE "ISOLATION exercises" OR DE "KAYAKING -- Training" OR DE "KNIFE fighting -- Training" OR DE "KORFBALL -- Training" OR DE "LACROSSE training & conditioning" OR DE "LONG slow distance training" OR DE "MARTIAL arts -- Training" OR DE "MOTORSPORTS training & conditioning" OR DE "MOUNTAINEERING -- Training" OR DE "NUNCHAKU -- Training" OR DE "ORIENTEERING -- Training" OR DE "OVERTRAINING" OR DE "PACE training" OR DE "PARACHUTING training & conditioning" OR DE "PARAKITING training & conditioning" OR DE "PERIODIZATION training" OR DE "PERSONAL training" OR DE "POLO training & conditioning" OR DE "PRACTICE (Sports)" OR DE "PRESEASON (Sports)" OR DE "RACQUETBALL -- Training" OR DE "RECOVERY training" OR DE "RELAY racing -- Training" OR DE "REPETITION training" OR DE "RESISTANCE training (Physical training & conditioning)" OR DE "ROCK climbing -- Training" OR DE "RODEO training & conditioning" OR DE "ROLLER skating training & conditioning" OR DE "ROWING -- Training" OR DE "RUGBY football -- Training" OR DE "RUNNING -- Training" OR DE "SHOT putting -- Training" OR DE "SKATING -- Training" OR DE "SKIS & skiing -- Training" OR DE "SKYDIVING training & conditioning" OR DE "SOCCER -- Training" OR DE "SOFTBALL -- Training" OR DE "SPEED endurance training" OR DE "SQUASH (Game) -- Training" OR DE "STRENGTH training" OR DE "SURFING -- Training" OR DE "SWIMMING -- Training" OR DE "TABLE tennis training & conditioning" OR DE "TEAM handball -- Training" OR DE "TENNIS -- Training" OR DE "TRACK & field -- Training" OR DE "TRIATHLON -- Training" OR DE "TUG of war (Game) -- Training" OR DE "VAULTING (Horsemanship) -- Training" OR DE "VOLLEYBALL -- Training" OR DE "WATER polo -- Training" OR DE "WEIGHT training" OR DE "WHEELCHAIR sports -- Training" OR DE "WINTER sports training & conditioning" OR DE "WRESTLING -- Training" OR DE "YOGA training & conditioning") OR (DE "EXERCISE" OR DE "ABDOMINAL exercises" OR DE "AEROBIC exercises" OR DE "ANAEROBIC exercises" OR DE "AQUATIC exercises" OR DE "ARM exercises" OR DE "BACK exercises" OR DE "BREATHING exercises" OR DE "BREEMA" OR DE "BUTTOCKS exercises" OR DE "CALISTHENICS" OR DE "CHAIR exercises" OR DE "CHEST exercises" OR DE "CIRCUIT training" OR DE "COMPOUND exercises" OR DE "DO-in" OR DE "EXERCISE -- Immunological aspects" OR DE "EXERCISE adherence" OR DE "EXERCISE for children" OR DE "EXERCISE for girls" OR DE "EXERCISE for men" OR DE "EXERCISE for middle-aged persons" OR DE "EXERCISE for older people" OR DE "EXERCISE for people with disabilities" OR DE "EXERCISE for women" OR DE "EXERCISE for youth" OR DE "EXERCISE therapy" OR DE "EXERCISE video games" OR DE "FACIAL exercises" OR DE "FALUN gong exercises" OR DE "FOOT exercises" OR DE "GYMNASTICS" OR DE "HAND exercises" OR DE "HATHA yoga" OR DE "HIP exercises" OR DE "ISOKINETIC exercise" OR DE "ISOLATION exercises" OR DE "ISOMETRIC exercise" OR DE "ISOTONIC exercise" OR DE "KNEE exercises" OR DE "LEG exercises" OR DE "LIANGONG" OR DE "METABOLIC equivalent" OR DE "MULAN quan" OR DE "MUSCLE strength" OR DE "PILATES method" OR DE "PLYOMETRICS" OR DE "QI gong" OR DE "REDUCING exercises" OR DE "RUNNING" OR DE "RUNNING -- Social aspects" OR DE "SCHOOLS -- Exercises & recreations" OR DE "SEXUAL exercises" OR DE "SHOULDER exercises" OR DE "STRENGTH training" OR DE "STRESS management exercises" OR DE "STRETCHING exercises" OR DE "TAI chi" OR DE "TREADMILL exercise" OR DE "WHEELCHAIR workouts" OR DE "YOGA")) OR (DE "SPORTS" OR DE "AERODYNAMICS in sports" OR DE "AERONAUTICAL sports" OR DE "AGE & sports" OR DE "AMATEUR sports" OR DE "ANIMAL sports" OR DE "ANTISEMITISM in sports" OR DE "AQUATIC sports" OR DE "BALL games" OR DE "BALLISTICS in sports" OR DE "BASEBALL" OR DE "BIOMECHANICS in sports" OR DE "COLLEGE sports" OR DE "COMMUNICATION in sports" OR DE "CONTACT sports" OR DE "CROSS-training (Sports)" OR DE "DISC golf" OR DE "DISCRIMINATION in sports" OR DE "DOG sports" OR DE "DOPING in sports" OR DE "ENDURANCE sports" OR DE "EXTREME sports" OR DE "FANTASY sports" OR DE "FASCISM & sports" OR DE "FEMINISM & sports" OR DE "GAELIC games" OR DE "GAY Games" OR DE "GOODWILL Games" OR DE "GYMNASTICS" OR DE "HOCKEY" OR DE "HOMOPHOBIA in sports" OR DE "HYDRODYNAMICS in sports" OR DE "INDIVIDUAL sports" OR DE "KINEMATICS in sports" OR DE "KNIFE throwing" OR DE "LGBT people & sports" OR DE "LOG-chopping (Sports)" OR DE "MASCULINITY in sports" OR DE "MASS media & sports" OR DE "MILITARY sports" OR DE "MINORITIES in sports" OR DE "MOTION pictures in sports" OR DE "MOTORSPORTS" OR DE "NATIONAL socialism & sports" OR DE "NATIONALISM & sports" OR DE "NONVERBAL communication in sports" OR DE "OLYMPIC Games" OR DE "PARKOUR" OR DE "PHOTOGRAPHY of sports" OR DE "PHYSICS in sports" OR DE "PRESIDENTS -- Sports" OR DE "PROFESSIONAL sports" OR DE "PROFESSIONALISM in sports" OR DE "RACING" OR DE "RACISM in sports" OR DE "RACKET games" OR DE "RECREATIONAL sports" OR DE "REGIONALISM & sports" OR DE "ROBOTICS in sports" OR DE "RODEOS" OR DE "ROLLER skating" OR DE "SCHOOL sports" OR DE "SENIOR Olympics" OR DE "SEXUAL harassment in sports" OR DE "SHOOTING (Sports)" OR DE "SHUTOUTS (Sports)" OR DE "SOCIALISM & sports" OR DE "SOFTBALL" OR DE "SPORT for all" OR DE "SPORTS & state" OR DE "SPORTS & technology" OR DE "SPORTS & theater" OR DE "SPORTS & tourism" OR DE "SPORTS -- Collectibles" OR DE "SPORTS -- Corrupt practices" OR DE "SPORTS -- Economic aspects" OR DE "SPORTS -- Finance" OR DE "SPORTS -- Folklore" OR DE "SPORTS -- Songs & music" OR DE "SPORTS competitions" OR DE "SPORTS for children" OR DE "SPORTS for girls" OR DE "SPORTS for older people" OR DE "SPORTS for people with disabilities" OR DE "SPORTS for women" OR DE "SPORTS for youth" OR DE "SPORTS forecasting" OR DE "SPORTS in antiquity" OR DE "SPORTS penalties" OR DE "SPORTS rivalries" OR DE "SPORTS teams" OR DE "STEREOTYPES (Social psychology) in sports" OR DE "TARGETS (Sports)" OR DE "TEAM sports" OR DE "TEAMWORK (Sports)" OR DE "TELEVISION & sports" OR DE "TRACEURS" OR DE "VIDEO tapes in sports" OR DE "VIOLENCE in sports" OR DE "WINTER sports")** | **391,333** |
| **S11** | **S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10** | **8,885** |
| **S10** | **DE "PERFORMANCE-enhancing drugs" OR DE "ALPRENOLOL" OR DE "ANABOLIC steroids in sports" OR DE "ANDROSTENEDIOL" OR DE "BETA-hydroxy-beta-methylbutyrate" OR DE "CARBOHYDRATE drugs in sports" OR DE "CLENBUTEROL" OR DE "EPITESTOSTERONE" OR DE "ERYTHROCYTES" OR DE "ERYTHROPOIETIN" OR DE "NANDROLONE" OR DE "ORYZANOL" OR DE "OXPRENOLOL" OR DE "PINDOLOL" OR DE "PROPRANOLOL" OR DE "STANOLONE" OR DE "STANOZOLOL" OR DE "TETRAHYDROGESTRINONE"** | **2,956** |
| **S9** | **etiocholanolone or noretiocholanolone or formebolone or formyldienolone or gestrinone or "4-hydroxytestosterone" or testobol or mestanolone or methasterone or methasteron or superdrol or methyldienolone or norandrostenedione or norandrostenediol or norandrosterone or norboletone or genebol or norclostebol or "anabol 4-19" or nilevar or oxabolone or quinbolone or "1-Testo" or (designer W1 steroid\*)** | **74** |
| **S8** | **stanolone or stanozolol or stenbolone or stromba or sustanon or testim or testopel or testosterone or tetrahydrogestrinone or trenbolone or trestolone or winstrol** | **3,108** |
| **S7** | **oral W1 turinabol OR ( oxandrin or oxandrolone or oxazolone or oxymetholone or oxymethalone or oxymesterone or prometholone or prostanozol )** | **37** |
| **S6** | **nandrolone or nerobol or norethindrone or norethisterone or norbolethone or norethandrolone or normethandrolone or norpregnenes or "19-Nortestosterone" or nortestosterone** | **220** |
| **S5** | **madol or maxibolin or MENT or mepitiostane or methalone or methane or 19-nor-methyltestosterone or methylestrenolone or mesterolone or metanabol or metandienone or methandienone or methandriol or methandrostenolone or methyltrienolone or metribolone or methyltestosterone or metenolone or methenolone or methylstanazol or mibolerone** | **341** |
| **S4** | **danazol or dehydrochlormethyltestosterone or dehydroepiandrosterone or DHEA or prasterone or desoxymethyltestosterone or dianabol or "5 alpha DHT" or "5 alpha-Dihydrotestosterone" or dihydrotestosterone or dromostanolone or drostanolone or epitestosterone or estranes or estrenes or estrenolone or ethylestrenol or fluoxymesterone or furazabol** | **508** |
| **S3** | **anadrol OR anapolon OR anaprotin OR anavar OR andractim OR androGel OR andropatch OR androstanazol OR androstane\* OR androstanolone OR androstenediol OR androstenedione OR androstenes OR androstenols OR androsterone OR boldione OR bolasterone OR boldenone OR cdmt OR calusterone OR clostebol** | **287** |
| **S2** | **((anabolic agent\* OR anabolic effect\*)) OR anabolic-androgenic W1 steroid\* OR androgen\* W5 abuse** | **942** |
| **S1** | **(DE "ANABOLIC steroids" OR DE "ANABOLIC steroids in sports" OR DE "ANDROSTENEDIONE" OR DE "METHANDROSTENOLONE" OR DE "ANABOLIC steroids in sports") OR (DE "PERFORMANCE-enhancing drugs")** | **3,285** |

**PsycINFO**

exp Androstanes/ or exp Androstenes/ or exp Danazol/ or exp Estranes/ or exp Norpregnenes/ or exp Oxazolone/ or exp Testosterone Congeners/   
2. exp Anabolic Agents/ or (anabolic agent\* or anabolic effect\*).mp. or (anabolic-androgenic adj1 steroid\*).mp. or (androgen# adj5 abuse).mp.   
3. (anadrol or anapolon or anaprotin or anavar or andractim or androGel or andropatch or androstanazol or androstane\* or androstanolone or androstenediol or androstenedione or androstenes or androstenols or androsterone or boldione or bolasterone or boldenone or cdmt or calusterone or clostebol).mp.   
4. (danazol or dehydrochlormethyltestosterone or dehydroepiandrosterone or DHEA or prasterone or desoxymethyltestosterone or dianabol or 5 alpha DHT or 5 alpha-Dihydrotestosterone or dihydrotestosterone or dromostanolone or drostanolone or epitestosterone or estranes or estrenes or estrenolone or ethylestrenol or fluoxymesterone or furazabol).mp.   
5. (madol or maxibolin or MENT or mepitiostane or methalone or methane or 19-nor-methyltestosterone or methylestrenolone or mesterolone or metanabol or metandienone or methandienone or methandriol or methandrostenolone or methyltrienolone or metribolone or methyltestosterone or metenolone or methenolone or methylstanazol or mibolerone).mp.   
6. (nandrolone or nerobol or norethindrone or norethisterone or norbolethone or norethandrolone or normethandrolone or norpregnenes or 19-Nortestosterone or nortestosterone).mp.   
7. ((oral adj1 turinabol) or oxandrin or oxandrolone or oxazolone or oxymetholone or oxymethalone or oxymesterone or prometholone or prostanozol).mp.   
8. (stanolone or stanozolol or stenbolone or stromba or sustanon or testim or testopel or testosterone or tetrahydrogestrinone or trenbolone or trestolone or winstrol).mp.   
9. (etiocholanolone or noretiocholanolone or formebolone or formyldienolone or gestrinone or 4-hydroxytestosterone or testobol or mestanolone or methasterone or methasteron or superdrol or methyldienolone or norandrostenedione or norandrostenediol or norandrosterone or norboletone or genebol or norclostebol or anabol 4-19 or nilevar or oxabolone or quinbolone or 1-Testo or designer steroid\*).mp.   
10. or/1-9   
11. exp Physical Conditioning, Human/ or exp Exercise/ or exp Sports/ or (olympic\* or physical strength or body strength or athlet\* or runners or swimmers or cyclists or baseball or basketball or soccer or football or sport# or ergogeni\* or untrained or novice\*).ti,ab.   
12. exp Resistance Training/ or (bodybuild\* or weightlift\*).ti,ab. or (body adj1 builder\*).ti,ab. or (resistance adj2 training).ti,ab. or (weight adj2 lift\*).ti,ab. or exercise.ti,ab.   
13. (performance or endurance or training).ti,ab.   
14. exp Torque/ or torque.ti,ab.   
15. (physical or fitness).ti,ab.   
16. (vo2 or volume oxygen or body composition or lean body mass or muscle mass).mp.   
17. exp Doping in Sports/ or exp Performance-Enhancing Substances/ or doping.ti,ab.   
18. (aerobic or anaerobic).mp.   
19. exp Muscle Strength/ or exp Muscles/de or musc\*.ti,ab.   
20. or/11-19   
21. 10 and 20   
22. (randomized controlled trial or controlled clinical trial).pt. or (randomi#ed or placebo or randomly or groups).ab. or (randomi\* or trial).ti,ab. or clinical trials as topic.sh.   
23. 21 and 22   
24. (aids or acquired immune deficiency or alzheimer or cancer or copd or diabet\* or hirsutism or hiv or human immunodeficiency virus or hypogonad\* or liver disease or obese or obesity or polycystic or pcos or renal disease or transsexual or transgender or trans men).ti.   
25. (cows or eels or goats or horses or mice or mouse or monkeys or rat or rats or rabbit\* or rodent\* or turkeys).ti.   
26. 24 or 25   
27. 23 not 26   
28. exp Animals/ not Humans.sh.   
29. 27 not 28   
30. (editorial or letter or case reports or comment).pt.   
31. 29 not 30   
32. limit 31 to english language