



Diagram 1) Frequency distribution of anabolic steroids use in 1 year in bodybuilders at Shahroud

Table 1) Distribution of absolute and relative frequency of the number of drugs used in bodybuilder athletes using anabolic steroid drugs in Shahroud (n=200)

Number of drugs used	No.	percentage
1	23	19.3
2	17	14.3
3	7	5.9
4	9	7.8
5	11	9.2
6	10	8.4
7	14	11.8
8	5	4.2
9	9	8.7
10	14	11.8
Total	119	100

Table 2) Prevalence of each type of anabolic steroids by age in athletes in Shahroud (n=200)

Drug	under 20 years	20-24 years	25-29 years	30-34 years	35 years and more	Significance level
Testosterone	3 (13.0)	26 (35.9)	23 (41.8)	13 (51.5)	14 (53.8)	0.015
Nandrolone	3 (13.0)	30 (41.1)	23 (41.8)	14 (60.9)	13 (50.0)	0.017
Oxymetholone	4 (17.4)	10 (13.7)	13 (23.6)	10 (43.5)	11 (42.3)	0.600
Methane	2 (8.7)	24 (32.9)	22 (40.0)	13 (56.5)	11 (42.3)	0.012
Dianabol	1 (4.3)	22 (30.1)	21 (38.2)	13 (56.5)	14 (42.8)	0.001
Primobolan	-	4 (5.5)	8 (14.5)	7 (30.4)	8 (30.8)	0.001
Winstrol	-	7 (9.6)	9 (16.4)	9 (39.1)	9 (34.6)	>0.001
Omnadren	-	6 (8.2)	12 (21.8)	8 (34.8)	12 (42.2)	>0.001
Sustanol	1 (4.3)	13 (17.8)	21 (38.2)	11 (47.8)	12 (42.2)	>0.001
Prohormone	5 (21.7)	21 (28.8)	24 (43.6)	12 (52.2)	16 (61.5)	0.008
At least one of the above	8 (34.8)	42 (54.5)	34 (61.8)	17 (73.9)	18 (69.2)	0.059
Number of athletes	23	73	55	23	26	-

Table 3) Prevalence of each type of anabolic steroids by education level in athletes in Shahroud (n=200)

Drug	Under diploma	diploma	University	Significance level
Testosterone	9 (56.3)	38 (34.9)	32 (42.7)	0.205
Nandrolone	9 (56.3)	44 (40.4)	30 (40.0)	0.458
Oxymetholone	6 (37.5)	26 (23.9)	16 (21.3)	0.388
Methane	9 (56.3)	34 (31.2)	29 (38.7)	0.124
Dianabol	8 (50.0)	36 (33.0)	27 (36.0)	0.413
Primobolan	3 (18.8)	14 (12.8)	10 (13.3)	0.811
Winstrol	5 (31.3)	15 (13.8)	14 (18.7)	0.196
Omnadren	4 (25.0)	20 (18.3)	14 (18.7)	0.815
Sustanol	7 (43.7)	29 (26.6)	22 (29.3)	0.368
Prohormone	5 (31.3)	42 (38.5)	31 (41.3)	0.746
At least one of the above	11 (68.8)	62 (56.9)	46 (61.3)	0.612
Number of athletes	16	109	75	-

Table 4) Prevalence of each type of anabolic steroids by having a history of the championship in athletes in Shahroud (n=200)

Drug	Yes	No	Significance level
Testosterone	41 (63.1)	38 (28.1)	0.001
Nandrolone	41 (63.1)	42 (31.1)	0.001
Oxymetholone	23 (35.4)	25 (18.5)	0.001
Methane	39 (60.0)	33 (24.4)	0.001
Dianabol	39 (60.0)	32 (23.7)	0.001
Primobolan	17 (26.2)	10 (7.4)	0.001
Winstrol	25 (38.5)	9 (6.7)	0.001
Omnadren	19 (29.2)	19 (14.1)	0.010
Sustanol	32 (49.2)	26 (19.3)	0.001
Prohormone	43 (66.2)	35 (25.9)	0.001
At least one of the above	56 (86.2)	63 (46.7)	0.001
Number of athletes	65	135	-

Table 5) Reasons of consumption of anabolic steroid drugs from the viewpoint of bodybuilder athletes in Shahroud (n=200)

Reasons of consumption	No.	Percentage
Unhappy with the style and appearance of body	47	39.5
Attract others' attention to muscle mass	70	58.8
Increased muscle mass	105	88.2
Participate in tournament and rank	47	39.5
Obtain professional conditions in this sport	13	10.9
Increase endurance and strength	11	9.2
Number of athletes	119	100