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**ІННОВАЦІЙНІ ТЕХНОЛОГІЇ В СИСТЕМІ
ПІДВИЩЕННЯ КВАЛІФІКАЦІЇ ФАХІВЦІВ
ФІЗИЧНОГО ВИХОВАННЯ І СПОРТУ**

ТЕЗИ ДОПОВІДЕЙ
II МІЖНАРОДНОЇ НАУКОВО-МЕТОДИЧНОЇ КОНФЕРЕНЦІЇ
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CORRELATE WITH SOMATIC THREE PARAMETERS OF SPORTSMANSHIP SUMY UNIVERSITY ARCHERY TEAM

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Sport result depends a lot on morphologic features of the sportsman, that is one of the selective factors determining the sportsman's perspective.

Purpose of research is to determine body build peculiarities of the students involved in archery.

Object and methods of research. Object of the research was 30 students Sumy State University. The first group consisted of 10 students (18-21 years old) training in archery sports clubs. It includes First-Class sportsmen, Candidates for Master of Sport, Masters of Sport, World-class athletes. Prize-winners and champions of Ukraine, the world champion and European Cup winners, the champions of tournaments and regional competitions.

The second group consisted of 20 students (18-21 years old) of basic group physical culture.

For these research purposes such methods were applied - somatometric method, statistic and mathematic research methods.

The examined somatic indices correlate with the level of sportsmanship and the training experience (Table 1). Comparing 35 somatic indices five of them correlate with assessmet of the rank sportsmanship of tested students, eight - at average, eighteen - at low, and four - at low level. Training experience correlate with somatic three parameters: with three - on average, with fifteen - at low level and fourteen - at low levels. Table 1.

The correlations of individual physical parameters with training experience and the level of sportsmanship team of the University of archery.

Somatic Characteristics (cm)	Training experience	Sport level
Weight, kg	-0,092	-0,092
Height, cm	-0,0762	0,3333
Upper segment of body, cm	0,4525	0,5016

Middle segment of body, cm	-0,0193	0,44083
Lower segment of body, cm	-0,1867	0,133
Length of shoulder, cm	-0,6934	-0,323
Length of forearm, cm	0,2768	0,552
Length of wrist, cm	-,06842	0,238
Total length of upper extremity segments, cm	-,01155	0,34
Length of hip, cm	-0,342	-0,4316
Length of shin, cm	-0,065	0,3543
Total length of foot, cm	-0,179	0,2852
Vital capacity	0,115	0,5264
Breadth of shoulder, cm	-,0426	0,471
Transverse diameter of chest, cm	-0,27	0,041
Antero-posterior diameter of chest, cm	-0,128	0,3126
Transverse diameter of the shoulder distal epiphysis, cm	0,2935	0,74976
Transverse diameter of forearm distal epiphysis, cm	0,4441	0,576
Breadth of wrist, cm	0,2217	0,644
Transverse diameter of the hip distal Epiphysis, cm	0,3046	0,74732
Transverse diameter of the shin distal epiphysis, cm	-0,2276	0,26341
Maximum breadth of foot, cm	-0,1744	0,25973
Inspiratory reserve volume, cm	0,4549	0,4549
Expiratory reserve volume, cm	0,427	0,4273
Excursion	0,0086	0,4458
Circumference of shoulder in quiet position, cm	0,5567	0,556
Circumference of shoulder in tension position, cm	0,7068	0,70680
Circumference of hip, cm	0,3746	0,37467
Circumference of shin in wide part, cm	0,285	0,285
Circumference of shin in narrow part, cm	0,051	0,051
Circumference of foot, cm	0,380	0,380
Circumference of forearm in wide part, cm	0,777	0,777
Circumference of forearm in narrow part,	0,733	0,733
Right hand dynamometry	0,279	0,279
Leftt hand dynamometry	0,561	0,561

Conclusions. Selected indices of body build of sportsmen correlate with the level of sportsmanship and the training experience.