

UNIVERSITY OF PÉCS MEDICAL SCHOOL



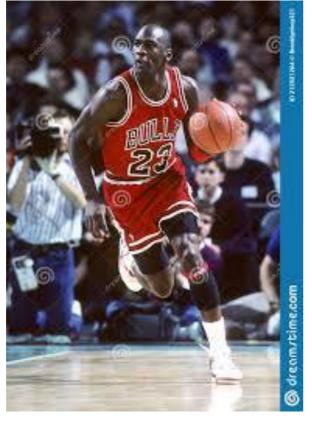
Talent selection Sport anthropometry

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Who is the talent?





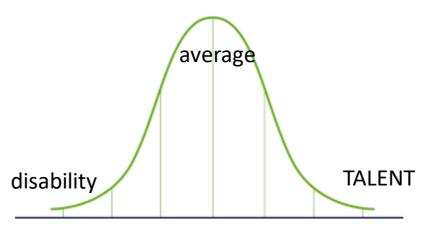






Selection- who is the talent?

-RARETY



Gauss curve standard normal distribution



Selection- who is the talent?



- ✓ General intellectual ability
- ✓ Special mental ability (Thurstone 1938) spatial orientation, detection speed, verbality, speed of word typing, rememberance, numeracy, ability of induction
- ✓ H. Gardner (1983) 7 talent sphere :linguistic, mathematical-logical, spatial orientation, musical, interpersonal, intrapersonal, movement
- ✓ Creativity
- \checkmark Motivation



Selection- who is the talent?

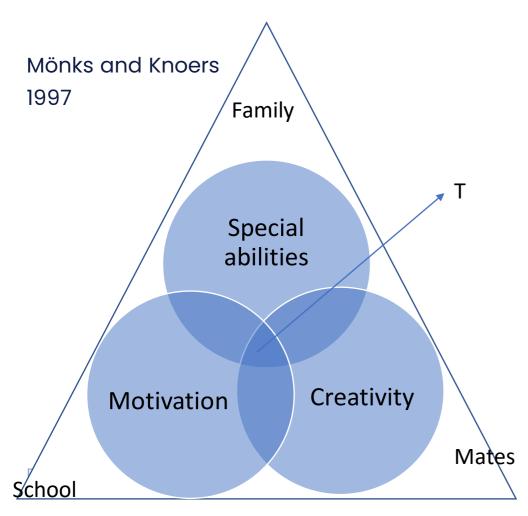
DUAL-ROOTEDNESS

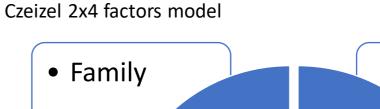


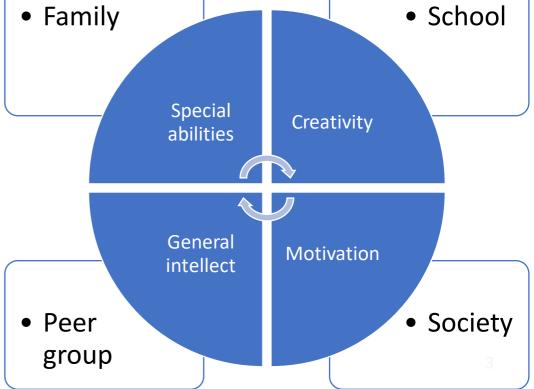
P= performance G= genetics E= enviroment

Czeizel (2004)

Talent models







Selection- who is the talent?-definition

- \checkmark different opinions
- ✓ Sport-specific aspects
- ✓ Competitive/professional sports suppose special talents
- ✓ Only few researches deal with definition of sport-specific sport talents



Selection- who is the talent? - definition



- 1. Sport talent is, who
- ✓ Inherited adequate biological bases and musculoskeletal structure for sport-specific needs
- ✓ These bases can be developed by trainings to reach the longterm prominent efficiancy
- ✓ And has special anthropometric, physical, coordinating, conditional, and psychic abilities (without these they can't reach above average performance (Révész, 2008)

2. Sport talent is, who can reach the same performance-development with less work or who reach bigger development with same work as the others (Nádori, 1985)

Selection

- 1. Natural selection
- 2. Indirect selection
- 3. Result-based selection
- 4. Scientific selection
- ✓ Exact, reliable
- ✓ Scientific methods
- ✓ Diagnostic and longitudinal trials



Selection- who is the talent?-management

- ✓ Different methods
- ✓ Different protocols of surveys
- ✓Analysis of the results
- ✓Analysis of the performance at competitions
- ✓ System in youth sport
- ✓ Key of success is TEAMWORK (parents, coach, school, club)
- ✓ Facilities, equipment, etc.



Sport anthropometry

Definition

✓ Height estimate

✓ Body composition

✓Somatotype

✓ Biological maturity

✓PHV

And based on the results

✓ Sport recommandation

✓ Loading possibilities



Sport antrhropometry

International standards of measurements





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Sportanthropometry

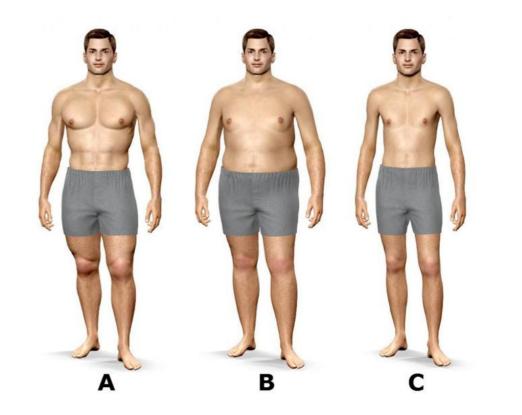
Somatotypes

-endomorphia (photo B): relative fatness

-mezomorphia (photo A): musculoskeletal relative robustness

ectomorphia (photo C):
relative thinness





Sportanthropometry

Somatotypes Strictly described sequence: endo-mezo-ecto

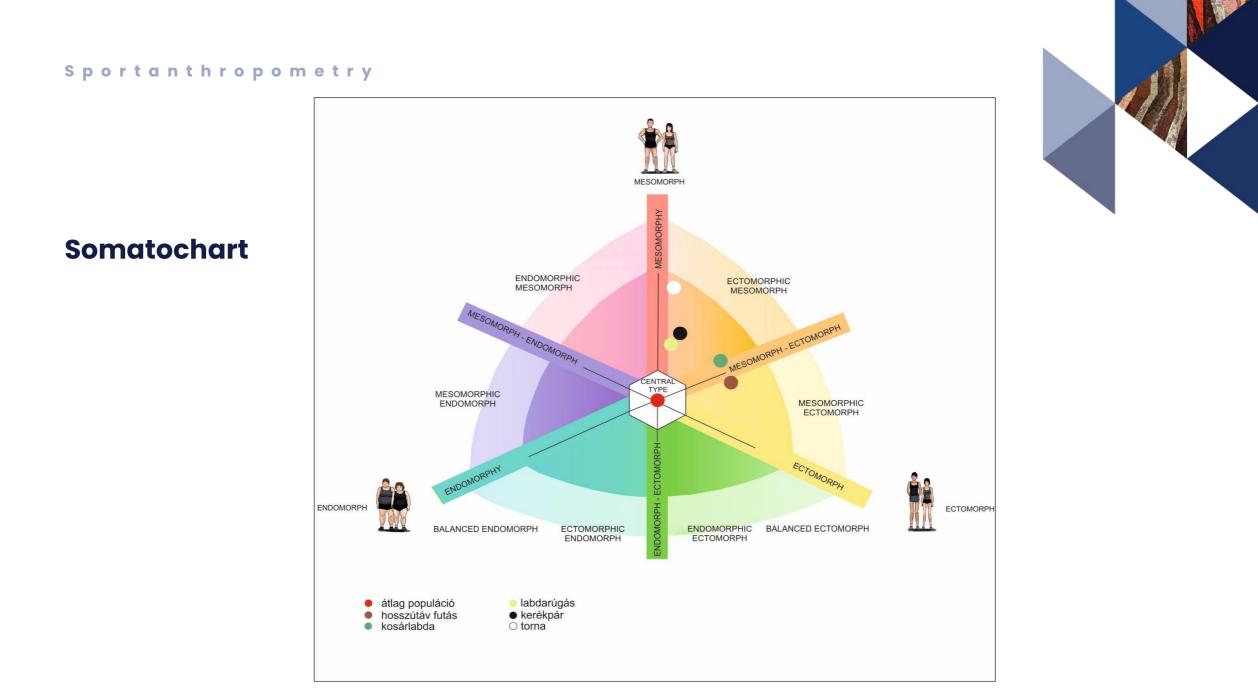


value	
0,5-2,5	small
2,6-5,4	middle
5,5-7	high
7-	very high

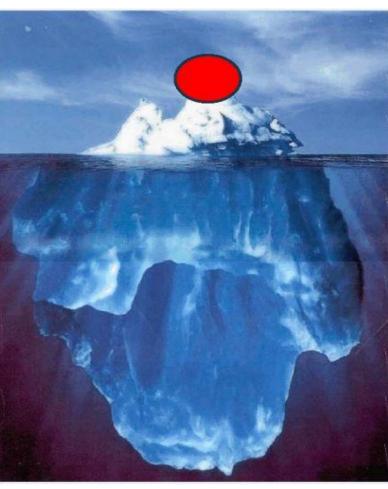
Somatotype of Hungarian professional athletes

•Basketball	2,0 – 5,5 – 3,1
•Boxing (+75 kg):	2,2 - 6,1 - 2,1
•Canoe	2,1 – 5,7 – 2,3
•Fancing	2,8 - 5,2 - 2,0
•Gymnastic	1,4 - 5,8 - 2,8
•Judo (71-86kg)	3,0-6,0-1,7
•Böde Dániel	3,4 - 6,7 - 1,2
•Dzsudzsák Balázs	2,6 - 4,3 - 1,9











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Thanks for attention!

