The Theory of Sport Training Basic Principles

LESSON 2

The Aim of the ST

Structure of Sport Performance

The kinds of sports

- Racing, competitive sport (children, youth, adults, recreational, second level performance sport, top sport...)
- Sport for health
- Sport of disable people

The aim of the ST

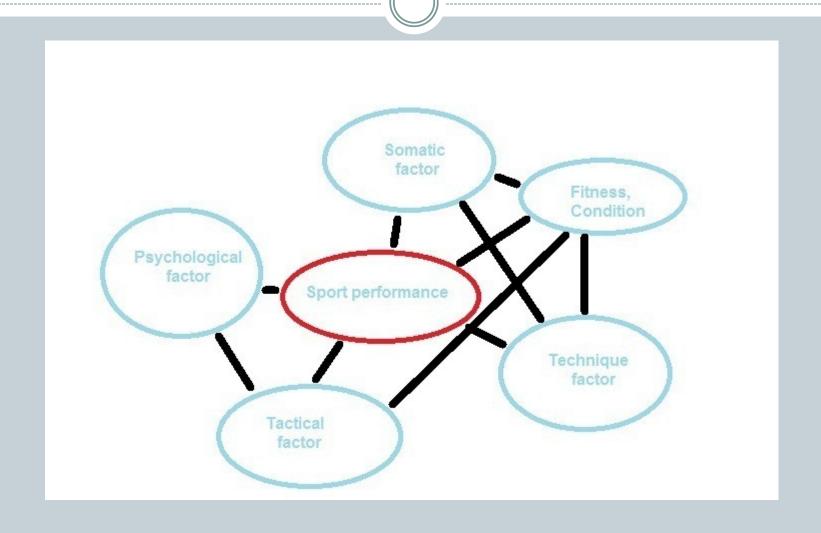
- Two ways of ST process:
 - ST for keeping or improving the health state
 - ST as a training process for competitors, for improvement of performance

The aim of the racing ST

- The aim of racing, competitive sport

 To reach the individual highest performance in chosen sport or discipline with the help of universal development of athlete
- The task of ST
 - to learn technique skills and ability to use these skills during competition
 - the development of motor abilities during fitness preparation
 - the development of mental side of athlete

Structure of Sport Performance



Somatic factor

- Building of body
 - external appearance of athlete (somatotyp),
 anthropometric dimension H, W, Length of extremities
 - composition of body internal environment

Factor of technique

 The ability to learn new movement structure and use its during competition

Fitness, condition factor

Precondition to realize movement, motor abilities

Tactical factor

 The ability to use the experience and knowledge to gain advantage over opponent

Psychological factor

• The development of individuality, social abilities etc.

Classification of the SP

- Speed strength performance
- Aesthetic technical performance
- Endurance performance
- Games
- Combat sports
- The sport performance connected with the handling of some apparatus, animal or sport equipment
- Sensorymotor performance

Speed – strength performance

- Sports ?
- The aim: get over the distance as fast as possible, take the highest, longest jump, lift the most weigth barbell
- Motor abilities strength, speed, co-ordination
- Motor skills simple structure, locomotion, (cyclic, acyclic, combined), the number of skills- small, variability ???
- Physiology great energy cost during short time, nBM –
 10 30000%
- Psychology big concentration of volitional effort in short time

Aesthetic – technical performance

- Sports ?
- The aim: solution of difficult movement task
- Motor ability: co-ordination, flexibility, strength, speed,
- Motor skills: great number of skills with difficult structure, variability???
- Physiology: not very high energy cost, aer-anaer.
 metabolism, load middle, nBM 2 5000%
- Psych. –creativity,

Endurance performance

- Sports?
- The aim: get over the given distance in shortest time
- Motor ability: endurance, strength
- Motor skills: small number, structure simple, variability???
- Physiology: middle energy cost per minute, but total cost during the whole time of race is enormous 2-5000% nBM, aer. metabolism,
- Psych: long term volitional effort and concentration, get over fatigue, persistence of effort

Games, collective sport performance

- Games??
- The aim: get over active opponent
- Motor ability: all
- Motor skills: high number, structure very complicated, variability high
- Physiology: load middle and changing, aeranaer.metab., 1 – 2000% nBM
- Psych: creative tactical thinking, team motivation (team spirit), anticipation, accept the social rule of team

Combat sports, individual sports

- Sports ?
- The aim: get over active opponent
- Motor ability: all
- Motor skills: great number, structure very complicated, variability???
- Physiology: small to high energy cost, 400-1500%nBM, aer- anaer. metabolism
- volitional activity, the ability get over pain, control of aggression, decision under deficit of time, anticipation

The sport performance connected with the handling of some apparatus, animal or sport equipment

- Sports ?
- The aim: get over distance, optional exercise in shortest time
- Motor ability: all
- Motor skills: from low to very high number, structure very various, variability?
- Physiology: energy cost 500-1000% nBM, most aer. than anaer. met.
- Psych: decision under time deficit, get over the fear, scare, courage, risk, danger, solve the unexpected problems

Sensorymotor performance

- Sports ?
- The aim: the most accurate hit of the target
- Motor ability: co-ordination
- Moto skills: small number, structure simple, variability???
- Physiology: energy cost low, 400-700% nBM,
- Psych: high level of concentration,