The Role of Psychological Skills in Sports & Physical Activities







Outline

- Definitions of Psychological Skills Training-PST
- Historical development of PST
- Why PST is important
- Research on PST and mental toughness
- Task 1
- A framework for understanding PST in sport
- An introduction to psychological techniques
- Task 2
- Why athletes or coaches neglect psychological skills

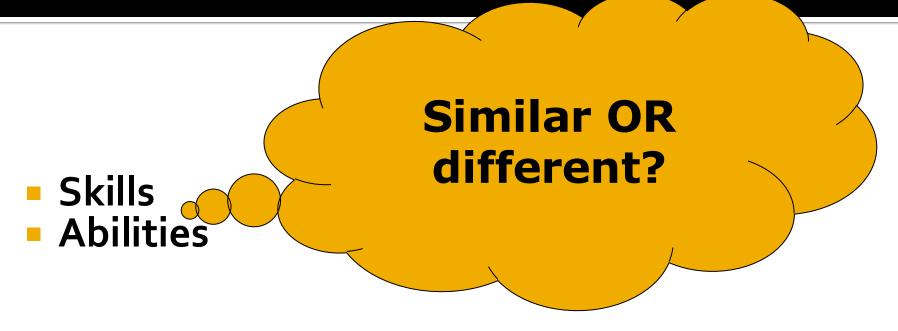
What is sport psychology

- The American Psychological Association (APA, 2008, 7 https://www.apa.org/ed/graduate/specialize/sports) defines sport psychology as follows:
- "Sport psychology is a proficiency that uses psychological knowledge and skills to address optimal performance and well-being of athletes, developmental and social aspects of sports participation, and systemic issues associated with sports settings and organizations."

Parents - Coaches...

Videos...

Describe or Define Psychological Skills



In small groups, think of examples

Video BBC

HISTORICAL DEVELOPMENT OF MENTAL SKILLS TRAINING IN SPORT

The story of sport psychology began in earnest with the writings of the ancient Greeks, a civilization which vigorously extolled the virtues of physical prowess.

We argue more about the navigation of ships than about the training of athletes, because it has been less well organized as a science. (Aristotle, Nicomachean Ethics)

The 'tetrad' or four-day system, a system guided by psychological as well as physiological principles (day one, preparation; day two, concentration; day three, moderation; day four, relaxation)

(Philostratus, Gymnastic)

The specific term "sport psychology" was first used...

- As far as is known, the specific term "sport psychology" was first used by Pierre de Coubertin (lived from 1863 to 1937) at the turn of the last century (de Coubertin, 1900).
- Coubertin, inspired by the Olympic Games of antiquity, was instrumental in initiating the Olympic Games of modern times as the founder the International Olympic Committee in 1894. He probably recognized that psychological factors play a decisive role in physical performance in the sense of "Citius, altius, fortius" (motto of the Olympic Games; Latin for faster, higher, stronger).

European sport psychological research

- The beginning of European sport psychological research stemmed from a strong interest in sport psychological topics by students of Wilhelm Wundt (lived from 1832 to 1920), who founded the first Experimental Institute of Psychology at the University of Leipzig in 1879.
- His student Edward Wheeler Scripture (lived from 1864 to 1945), for example, published laboratory experimental studies (e.g., Scripture, 1894) on the question of whether fencers differed from other groups of people in their reaction times ("mental quickness") and movement times (speed of execution of movements).

American Sport Psychology

The founding of the first American research institute for competitive sport (Athletic Research Laboratory, University of Illinois, Chicago Urbana) in 1925 is considered to be one of the first major milestones in American sport psychological research.

HISTORICAL DEVELOPMENT OF MENTAL SKILLS TRAINING IN SPORT

Coleman Griffith was hired by the Chicago Cubs professional baseball team in 1938 to improve the performance of the team.

× The mental training techniques included: practice management strategies for enhanced learning and automation of skills, communication, skills for coaches, team dynamics and leadership development, goal setting, confidence building, competitive simulation, a test battery for measuring players' basic physical and "visual" skills, and a recommendation that psychological testing and observation be included in scouting

Sport Psychology Scientific Bodies

- The first World Congress of Sport Psychology took place in Rome, Italy, in 1965. At that time, proximity enabled networking among sport psychologists from different European countries. At the congress, the International Society of Sport Psychology (ISSP) was founded.
- Three years later, in 1968, the European Federation of Sport Psychology (FEPSAC) was established.
- In 1970, the first sport psychology journal was published under the name "International Journal of Sport Psychology." "The Journal of Sport Psychology" of the North American Society for Psychology of Sport and Physical Activity (NASPSPA) which later became the influential "Journal of Sport and Exercise Psychology" was the second sport psychology journal first issued in 1979.

- ISSP International Society of Sport Psychology https://issponline.org
- FEPSAC- European Federation of Sport Psychology -<u>https://fepsac.com/history/</u>
- AASP Association for Applied Sport Psychology https://appliedsportpsych.org
- NASPSPA- North American Society for Psychology of Sport and Physical Activity https://www.naspspa.com
- BASES British Association for Sport and Exercise Science - https://www.cases.org.uk

Sport Psychology Journals

Sport and Exercise Psychology Journals Journal of Sport and Exercise Psychology http://journals.humankinetics.com/jsep-current-issue Psychology of Sport and Exercise http://journals.humankinetics.com/jsep-current-issue Journal of Applied Sport Psychology http://www.tandfonline.com/toc/uasp20/current#.UIY G2R5zsk The Sport Psychologist http://journals.humankinetics.com/tsp International Journal of Sport and Exercise Psychology (Editor Prof Papaioannou) http://www.tandfonline.com/action/journalInformation... Research Quarterly for Exercise and Sport http://www.tandfonline.com/toc/urge20/current#.UIZAgmR5zsk Journal of Sports Sciences (Multidisciplinary) http://www.tandfonline.com/loi/rjsp20#.UIZAsWR5zsk International Review of Sport and Exercise Psychology http://www.tandfonline.com/toc/rirs20/current#.UIZBZGR5zsk Journal of Sport Exercise and Performance Psychology http://www.apa.org/pubs/journals/spy/ Journal of Sport Psychology in Action http://www.tandfonline.com/toc/uspa20/current#.UIZBOmR5zsk The Journal of Sport Behavior http://www.southalabama.edu/psychology/journal.html Journal of Athletic Enhancement http://www.scitechnol.com/athletic-enhancement.php Journal of Teaching in Physical Education http://journals.humankinetics.com/jtpe-contents Measurement in Physical Education and Exercise Science

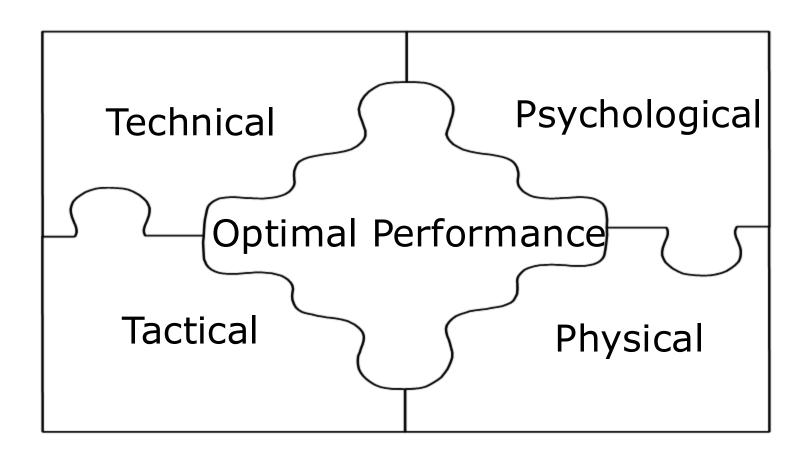
What is psychological skills training?

 Psychological skills training or mental training is based on the implementation of mental strategies that aim to enhance the athlete's or team's performance. The aim is to reduce "mental weaknesses" as well as to enhance their skills and talent.

Why PST is important?

- Which of the following sport and exercise experiences have you had?
- You chocked at a critical point in competition
- You lacked the motivation to exercise
- Your mind wandered during competition
- 4.

Why PST is important?



But..ln any sport a player's success...

Results from a combination of physical (e.g., strength, speed..)

AND
Mental abilities
Concentration
Confidence
Anxiety management

Jordan -- failure/success

• • • •

Orlick & Partington, 1988

Elements distinguishing successful and unsuccessful athletes

- High level of commitment
- Set clear short- and long-term goals
- Engaged in imagery and simulation training
- Focused and refocused in face of distractions
- Had an established mental training plan
- Had a clearly established mental plans for competition

Van den Auweele, De Cuyper, Van Mele & Rzewinicki, (1993)

- Characteristics in successful athletes
- High self-confidence
- Pre and post-competition low anxiety levels
- Techniques to regulate anxiety
- Attentional focus in specific tasks and movements.
- Ability to cope with unexpected/poor executions
- Positive self-talk

Gould, Guinnan, Greenleaf, Medbery, & Peterson, 1999

Successful teams

- Engaged in extensive mental preparation
- Were highly focused and committed
- Received support from family and friends
- Participated in residency programs

Less successful teams

- Not as effective in planning for competitions
 - Lacked cohesion
 - Experienced problems with coaching, traveling, focus, and commitment

Durand-Bush & Salmela, 2002

Personal characteristics of Canadian Gold medal holders

- Self-confidence
- Motivation
- Creativity
- Perseverance

Training characteristics

- Technical, tactical, physical and mental components
 - Influenced by quality, quantity, intensity, and recovery

Competition Factors

- Meticulous planning
- Evaluation
- Dealing with pressure, expectations, adversity
- Focusing on the process rather than the outcome of events

Gould, Dieffenbach, & Moffett, 2002

US Olympic Champions were characterized by...

- Ability to cope with and control anxiety
- Confidence
- Mental toughness/resiliency
- Sport intelligence
- Ability to focus and block out distractions
- Competitiveness
- Hard work-ethic
- Ability to set and achieve goals
- Coachability
- High levels of dispositional hope
- Optimism
- Adaptive perfectionism

Jones, Hanton, & Connaughton, 2002

Mental toughness

- Is having the natural or developed psychological edge that enables an athlete to:
 - Generally, cope better than the opponents with the many demands (competition, training, lifestyle) that sport places on a performer
 - Specifically, be more consistent and better that the opponents in remaining determined, focused, confident, and in control under pressure

Tiger Woods – Never ad

Video with tennis player...

Anshel (2003)

Orlick (2008)

- Risk taking
- Sensation seekers
- Competitiveness
- Self-confidence
- Attentional style
- Expectations of success
- Mental toughness
- Ability to regulate stress levels

- Focus.
- Commitment.
- Confidence.
- Positive images.
- Mental readiness.
- Distraction control.
- Ongoing Learning.

The Development and Maintenance of Mental Toughness in the World's Best Performers

Declan Connaughton and Sheldon Hanton

University of Wales Institute

Graham Jones

Lane 4 Management Group Ltd.

Table 1 Mental Toughness Framework Dimensions and Subcomponents (Jones et al., 2007)

Foundations
— of mental
— toughness

Dimension	Subcomponent
Attitude/Mindset	• Belief
	• Focus
Training	 Using long-term goals as the source of motivation
	Pushing yourself to the limit
	Controlling the environment
Competition	Controlling the environment
	• Belief
	Regulating performance
	Staying focused
	 Awareness and control of thoughts and feelings
	Handling pressure
Postcompetition	Handling failure
	Handling success

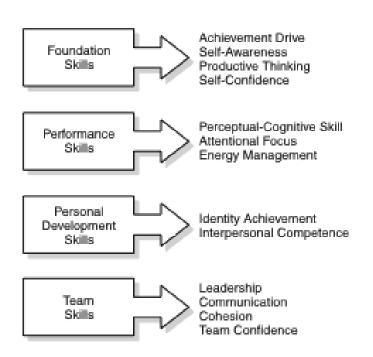
Task 1) Watch the video

Which skills are portrayed in these athletes?

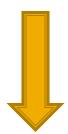
USWNT - Abby Wambach - video

Vancouver 2010 Anniversary Joannie Rochette - video

What is the objective of PST? (Vealey, 2007)

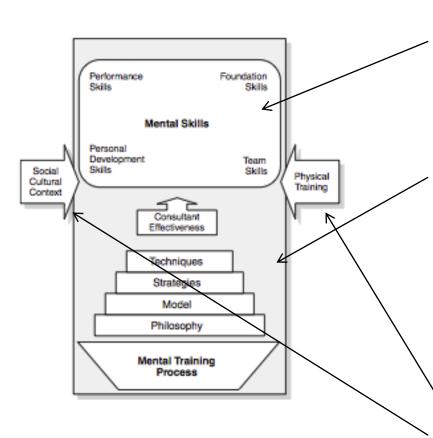


The objective of PST is to assist sport participants in the development of mental skills to achieve performance success and personal well-being.



Identify key mental skills that are related to performance success and personal well-being to guide the development of mental training interventions.

A framework for understanding mental skills training in sport (Vealey, 2007)



The targets for mental training are foundation, performance, personal development, and team skills.

The process of mental training includes the philosophy, model, strategies, and techniques that define the consultant's approach to enhancing mental skills.

This process is mediated by the interpersonal and technical effectiveness of the consultant.

The two arrows on each side of the framework represent the influence of physical training and the social-cultural influences

Mental training process(Vealey, 2007)

 Mental skill training has matured from early interventions that focused on the random application of mental training techniques, such as imagery and goal setting, to programmatic intervention models that utilize specific mental training strategies and techniques within a coherent guiding intervention model.

Philosophy - Video with Robert Rotella

- The mental training process begins with the consultant's philosophy, or his or her set of ideas and beliefs about the nature of mental skills and mental training, usually including program objectives and the respective roles of the consultant, athlete, and coach in the process.
- Educational Vs clinical approaches (Videos...)
- Program-centered Vs athlete-centered
- Performance enhancement Vs personal development

Model of intervention

- Models for team, organizational, and family intervention
- self-regulatory or cognitive-behavioral models
- behavioral management models
- educational mental skills models
- developmental models
- sport-specific mental skills models
- clinical intervention models
- perceptual training models

Strategies and Assessment (Vealey, 2007)

- Five-Step Strategy (Singer, 1988)
- The four-phase psychological skill program for close-skill performance enhancement (Boutcher & Rotella, 1987)
- P3 Thinking and goal mapping (Vealey, 2005)
- Centering (Nideffer & Sagal, 2006)
- Competition focus plans (Orlick, 1986)
- The five-step approach to mental training using biofeedback (Blumenstein, Bar-Eli, & Tenenbaum, 2002)
- Visuo-motor behavioral rehearsal (Suinn, 1993)
- Observation
- Interviews
- Questionnaires
- Psychophysiological measures

Techniques

- The traditional four mental training techniques of:
- Imagery
- goal setting
- thought management/ self-talk
- physical relaxation/arousal regulation

have been most widely used by consultants (Gould, Murphy, Tammen, & May, 1991; Sullivan & Nashman, 1998; Vealey, 1988),

What is imagery?

- Visualization, mental rehearsal, mental practice
- Imagery involves creating or recreating an experience in your mind
- Can involve all senses visual, kinesthetic, auditory, tactile
- Can involve moods and emotions

What is goal-setting

- Goals are clear targets set down by an athlete that outlines priorities and expectations regarding overall performance.
- They can be short term running 3 times per week initially to running a marathon as a long term goals...

What is self-talk

- internal dialogue with oneselfMoran, 1996
- ... occurs anytime a person thinks

Zinsser, Bunker, and Williams 2006

 ... statements, phrases or cue words that are addressed to the self which might be said automatically or very strategically, either out loud or silently, phrased positively or negatively, having an instructional or motivational purpose, an element of interpretation, and incorporating some of the same grammatical features associated with every day speech

Hardy & Zourbanos 2016

See Video on howDr. Dan Gould discusses how to use thought stopping, centering and refocusing in basket ball.

What is arousal regulation?

Individuals can control their autonomic functioning (arousal)

Heart rate

-Muscle tension

Breathing

-Body temperature

- I felt physically very relaxed, but also...pumped up.
- I experienced no anxiety or fear..."

Psychological skill	Purpose	Psychological method used
Arousal	Control levels of anxiety before completing a task	ImagerySelf-talkArousal regulation
Concentration	Focuses attention on what is important in completing a task	•Imagery •Self-talk
Confidence	Allows a person to believe in their ability to complete a task	ImagerySelf-talkGoal-setting
Motivation	Gives a person the desire to complete a task	Self-talkGoal-setting

Task 2)

- A) Find 3 articles from 2020-2024 on Elements distinguishing successful and unsuccessful athletes or mental toughness
- B) Find Applications in i-Phone or Android related to psychological skills training or sport psychology
- nzourba@pe.uth.gr

In general

- Learning is most effective when mental skills are taught/coached as an integral part of training, not as an "add on" activity.
- Like all learning, mental skills learning is a developmental process; it begins with simple familiar examples and gradually develops with practice and good instruction to apply to complex and unfamiliar situations

Why athletes or coaches neglect psychological skills?

- Misunderstandings about psychological skills (e.g., they can't be learned)
- Lack of time
- Lack of knowledge

What Michael Phelps Can Teach Us About Mental Health

https://www.youtube.com/watch?v=YqpcIRq CmTY

THANK you for your attention