

Lecture 12:

Pre – Competition Anxiety

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Hidden Saboteurs of Athletic Performance:

- Pre Competition Anxiety.
- Jet Lag.

Pre – Competition Anxiety (PCA):

 Pre – competition anxiety (PCA) is a disorder commonly seen among athletes participating in any type of competition.

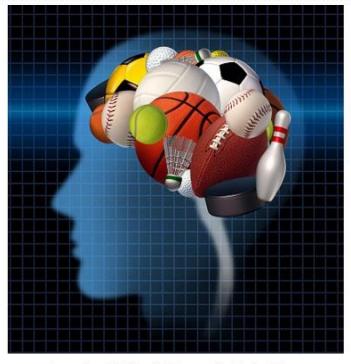
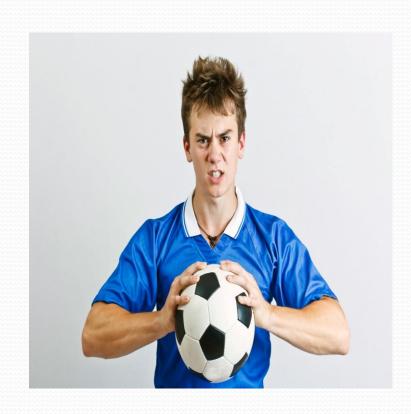


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 It is normal for athletes to feel nervous before a competition.

 Pre – Competition anxiety usually starts few days before the competition and gets worse as competition time gets closer.



Signs and Symptoms of PCA:

- a) Preoccupation with competition.
- b) Poor concentration.
- c) Jitteriness and agitation.
- d) Sleep disturbances.
- e) Increased muscle tension.

f) Clenched jaws.

• g) Sweaty palms.

h) Increased heart and breathing rates.

• i) Gastrointestinal disturbances, such as stomach upset, loss of appetite, early satiety, flatulence and feeling full.

Consequences of PCA:

- a) Decreased athletic performance.
- b) Athletic discrepancy disorder.
- c) Increased risk of post exercise rhabdomyolysis (PER).
- d) Loss of competitive drive.

• e) Decreased motivation and self-confidence.

• f) Triggering IBS (Irritable Bowel Syndrome).

Management and Nutritional Supports for Pre – Competition Anxiety (PCA):

- It would be a good idea to discuss your nervousness and anxiety with your coaches and a sport psychologist if available.
- Sport psychologists use different techniques to handle pre competition anxiety.

 Dietary changes and food supplementation help athletes cope easier with pre – competition anxiety.

Restricted Foods:

- a) Refined sugars.
- b) Alcohol.
- c) Coffee.
- d) Chocolate.
- e) Candies, cakes and cookies.
- f) Caffeinated drinks.
- g) Carbonated beverages.

Recommended Foods:

- a) Whole grains.
- b) Legumes.
- c) Nuts.
- d) Lean proteins.
- e) Fruits high in serotonin: dates, bananas, and papayas. Serotonin is the main hormone in the body involved in controlling anxiety.

- f) Foods high in tryptophan: milk, turkey, sesame seeds, sunflower seeds, spirulina, soybeans, and oats. This amino acid converts in the body into serotonin.
- g) Foods high in inositol: cantaloupe, citrus fruits (except lemons), brewer's yeast, wheat germs, cabbage, nuts, seeds, and legumes. Inositol involves in nerve transmission and eases nervousness.

• h) Ginger.

• i) Chamomile tea.

Recommended Supplements:

 a) Omega-3: 2 – 3 grams a day. This essential fatty acid has a calming effect.

• b) **Magnesium:** 400 – 600 mg a day.

• c) Calcium: 1000 mg a day.

d) 5 - Hydroxytryptophan (5 - HTP): 200 - 300 mg a day. 5 - HTP increases serotonin level and reduces anxiety. CAUTION: 5 - HTP should not be taken in combination with antidepressant and anti-anxiety medications.

 e) Melatonin: 6 – 9 mg a day. It improves sleeping quality and promotes relaxation.

- f) GABA (Gamma-Aminobutyric Acid): 500 1500 mg a day. It eases nervous tension and promotes relaxation.
- g) L Theanine: 200 400 mg a day. This amino acid improves concentration and reduces irritability and anxiety.
- h) Inositol: 500 1000 mg a day. Inositol involves in nerve transmission and eases nervousness.

• i) Saint – John's wort: 600 – 900 mg a day. This herb contains hypericin that elevates mood and helps with anxiety. Caution: do not take this product along with other anti-anxiety medications.

• j) Valerian root: 450 – 900 mg a day. It has a calming effect and shows better results if combined with passion flower.

k) Passion flower extract: as a capsule, 450 – 900 mg a day, as a dried herb, 3 – 6 grams, as a tea, 2 – 3 times a day, or as a tincture, 5 – 10 ml a day.

It promotes tranquility. This plant contains flavonoids that are responsible for its anti-anxiety activity.

Passion flower shows better results if combined with valerian.

Homework:

• 1) Describe consequences of pre – Competition Anxiety.

• 2) List at least five supplements that help with anxiety before competition.

