RED-S



WHAT IS RED-S?

RED-S stands for **Relative Energy Deficiency** in **Sport**. It means the body has a **shortage of energy** available to keep up with the **demands of exercise** on top of **essential functions** like growth, respiration and digestion, resulting in impaired immunity, cardiovascular health, bone health amongst other things.

WHAT CASUES RED-S?

RED-S is the result of **consistently not taking in enough energy** (from food and drinks) **for the amount of energy used by the body**, either intentionally or unintentionally.

WHAT CAN CONTRIBUTE TO A PERSON DEVELOPING RED-S ?

RED-S can happen in **any active person**; they don't have to look very thin, nor appear to be restricting their eating.

A lot of the time RED-S can be unintentional:

- Underestimating the energy requirements of exercise
- Increasing training frequency/duration/intensity without increasing the amount (or right type) of food eaten
- Suppressed appetite or upset stomach surrounding training, leading to less food being eaten
- Life changes such as moving somewhere new, starting university, increasing active travel on foot/by bike, having to cook own meals, focusing on being 'healthier'

Sometimes RED-Scan occur because of intentional restriction of energy intake:

- Intentional food restriction in an attempt to lose weight or alter body composition
- · As a result of disordered eating behaviour or a clinical eating disorder

IDENTIFYING RED-S

PHYSICAL SYMPTOMS

PSYCHOLOGICAL Symptoms

- Unexplained fatigue or low energy levels
- Feeling cold
- Delayed/disordered growth or development (in children and teenagers)
- Recurrent or persistent injury or illness (eg colds and flu)
- Missing or irregular periods, and then heavier periods with worse symptoms
- Decreased coordination
- Low bone mineral density
- Increased irritability, poor concentration, depression
- Body dissatisfaction or dysmorphia
- Anxiety around food
- · Anxiety around exercise and avoidance of rest days

WHERE TO GET HFID

Often, athletes, coaches and doctors are unaware of **RED-S** and its serious implications. **Project RED-S** is an excellent resource providing **information** for athletes, coaches and supporters. If you think you may be affected by RED-S the **Project RED-S** website includes information on **identification/diagnosis** and an **example letter to take to your GP** who should be your **first port of call when seeking help**. Go to <u>www.red-s.com</u> to find out more.