# Australian Athletes Data

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April 2022

## 1  About the Data

The data presented contains information related to Australian athletes.

The data is obtained from R, its documentation is linked below.

Source: `https://vincentarelbundock.github.io/Rdatasets/doc/DAAG/ais.html`

## 2  Variables

- Rcc - Red blood cell count. This is a quantitative variable.

- Wcc - White blood cell count, per liter. This is a quantitative variable.

- Hematocrit - Percent of hematocrit. Hematocrit: The ratio of the volume of red blood cells to the total volume of blood. This is a quantitative variable.

- Hg - Hemoglobin concentration in g per decaliter (10 liters). Hemoglobin: A protein that carries oxygen to organs. This is a quantitative variable.

- Ferr - Plasma ferritins in ng. Measures the amount of ferritin in blood. Ferritin is a blood protein that contains iron. This is a quantitative variable.

- Bmi - Body mass index, in kg/$m^2$. Body mass divided by the square of the height $m^2$. This is a quantitative variable.

- Ssf - Sum of skin folds. Estimates the percentage of body fat by measuring skin fold thickness. This is a quantitative variable.

- PcBfat - Percentage of body fat. This is a quantitative variable.

- Lbm - Lean body mass in kg. Total body weight minus body fat weight. This is a quantitative variable.

- Ht - Height in cm. This is a quantitative variable.

- Wt - Weight in kg. This is a quantitative variable.

- Sex - A factor representing the sex of the athlete: female and male. This is a qualitative categorical variable.

- Sport - A factor representing the sport the athlete plays B Ball, Field, Gym, Netball, Row, Swim, T 400m, T Sprnt, Tennis, and W Polo. This is a qualitative categorical variable and will be used as the class variable.