

Package ‘hemat’

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Type Package

Title Hematimetric Indices Calculator

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Maintainer Andre Luis Fernandes dos Santos <andrvet@alumni.usp.br>

Description Tools to calculate Mean Corpuscular Volume, Mean Corpuscular Hemoglobin, and Mean Corpuscular Hemoglobin Concentration, which are essential for assessing red blood cell health and diagnosing blood disorders.

License GPL (>= 2)

Suggests testthat (>= 3.3.1)

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Author Andre Luis Fernandes dos Santos [aut, cre] (ORCID: <<https://orcid.org/0000-0001-7053-4989>>)

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`calc_mch`*Calculate Mean Corpuscular Hemoglobin (MCH)*

Description

Calculates the MCH based on hemoglobin concentration and red blood cell count. MCH measures the average amount of hemoglobin per red blood cell.

Usage

```
calc_mch(hb, rb)
```

Arguments

hb	Numeric value representing the hemoglobin concentration in g/dL.
rb	Numeric value representing the red blood cell count (millions/ μ L).

Value

Numeric value representing the MCH in picograms (pg).

Examples

```
calc_mch(15, 5)
```

`calc_mchc`*Calculate Mean Corpuscular Hemoglobin Concentration (MCHC)*

Description

Calculates the MCHC based on hemoglobin concentration and hematocrit. CHCM measures the average concentration of hemoglobin in red blood cells.

Usage

```
calc_mchc(hb, ht)
```

Arguments

hb	Numeric value representing the hemoglobin concentration in g/dL.
ht	Numeric value representing the hematocrit in percentage.

Value

Numeric value representing the MCHC in grams per deciliter (g/dL).

Examples

```
calc_mchc(15, 40)
```

`calc_mcv`*Calculate Mean Corpuscular Volume (MCV)*

Description

MCV measures the average volume of red blood cells in a blood sample.

Usage

```
calc_mcv(ht, rb)
```

Arguments

ht	Numeric value representing the hematocrit in percentage.
rb	Numeric value representing the red blood cell count (millions/ μ L).

Value

Numeric value representing the MCV in femtoliters (fL).

Examples

```
calc_mcv(40, 5)
```

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