

# Package ‘MetabolicSyndrome’

August 18, 2023

**Type** Package

**Title** Diagnosis of Metabolic Syndrome

**Version** 0.1.3

## Description

The modified Adult Treatment Panel -III guidelines (ATP-III) proposed by American Heart Association (AHA) and National Heart, Lung and Blood Institute (NHLBI) are used widely for the clinical diagnosis of Metabolic Syndrome. The AHA-NHLBI criteria advise using parameters such as waist circumference (WC), systolic blood pressure (SBP), diastolic blood pressure (DBP), fasting plasma glucose (FPG), triglycerides (TG) and high-density lipoprotein cholesterol (HDL-C) for diagnosis of metabolic syndrome. Each parameter has to be interpreted based on the proposed cut-offs, making the diagnosis slightly complex and error-prone. This package is developed by incorporating the modified ATP-III guidelines, and it will aid in the easy and quick diagnosis of metabolic syndrome in busy healthcare settings and also for research purposes. The modified ATP-III-AHA-NHLBI criteria for the diagnosis is described by Grundy et al ., (2005) <[doi:10.1161/CIRCULATIONAHA.105.169404](https://doi.org/10.1161/CIRCULATIONAHA.105.169404)>.

**License** GPL-3

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.2.3

**URL** <https://github.com/jagadishramasamy/metsynd>

**BugReports** <https://github.com/jagadishramasamy/metsynd/issues>

**Suggests** knitr, rmarkdown

**Imports** dplyr

**Depends** R (>= 2.10)

**NeedsCompilation** no

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**Repository** CRAN

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**R topics documented:**

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**Description**

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**Usage**

```
MetabolicSyndrome(x)
```

**Arguments**

x                    a data frame with column names as exactly specified.

**Value**

Yes or No

**Examples**

```
MetabolicSyndrome(x)
```

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x

*An example data frame*

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**Description**

A data frame with exact column names as specified.

**Usage**

x

**Format**

A data frame with parameters needed to diagnose metabolic syndrome.

**Gender** Gender in Male or Female

**WC** Waist Circumference in cm

**TG** Triglycerides in mg/dL

**HDLC** High Density Lipoprotein Cholesterol in mg/dL

**SBP** Systolic BP in mm Hg

**DBP** Diastolic BP in mm Hg

**FPG** Fasting plasma glucose in mg/dL

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