

# Package ‘hivdata’

July 22, 2025

**Type** Package

**Title** Six-Year Chronological Data of HIV and ART Cases in Pakistan

**Version** 0.1.0

**Author** Muhammad Imran [aut, cre],  
Saima Shakoor [aut]

**Maintainer** Muhammad Imran <imranshakoore84@yahoo.com>

**Depends** R (>= 4.0)

**Imports** stats

## Description

We provide the monthly number of HIV and antiretroviral therapy (ART) cases of male, female, children and transgender as well as for the whole of Pakistan reported at various treatment centers in Pakistan from January 2016 to December 2021. Related works include:  
a) Imran, M., Nasir, J. A., & Riaz, S. (2018). Regional pattern of HIV cases in Pakistan. Journal of Postgraduate Medical Institute, 32(1), 9-13.

<<https://jpmi.org.pk/index.php/jpmi/article/view/2108>>.

**License** GPL (>= 2)

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2023-10-10 17:00:08 UTC

## Contents

hivdata-package . . . . .	2
HIV and ART cases . . . . .	2
HIV and ART cases in Pakistan . . . . .	4

<b>Index</b>	<b>6</b>
--------------	----------

---

hivdata-package

*Six-Year Chronological Data of HIV and ART Cases in Pakistan*

---

### Description

Infectious disease time series data are important to understand the pattern of diseases, timely intervention, and source allocation which helps in disease management and control. We provide the monthly number of HIV and ART cases of male, female, children and transgender as well as for the whole of Pakistan reported at various treatment centers in Pakistan from January 2016 to December 2021. The data have been taken from the official website of the Pakistan Bureau of Statistics. Every year the data is updated, Imran et al. (2018) used the monthly number of HIV cases from January 2013 to July 2014 taken from Pakistan Bureau of Statistics.

### Details

Package: hivdata  
Type: Package  
Version: 0.1.0  
Date: 2023-10-07  
License: GPL-2

### Maintainers

Muhammad Imran <imranshako0r84@yahoo.com>

### Author(s)

- Muhammad Imran <imranshako0r84@yahoo.com>
- Saima Shakoor <saimashako0r500@gmail.com>

---

HIV and ART cases

*Monthly reported HIV and ART cases of male, female, children and transgender*

---

### Description

The functions provide the monthly reported HIV and ART cases of males, females, children, and transgenders in Pakistan from January 2016 to December 2021.

### Usage

malehiv  
maleart  
femalehiv  
femaleart  
childhiv  
childart  
tghiv  
tgart

### Arguments

malehiv	A data vector of male monthly HIV cases.
maleart	A data vector of male monthly ART cases.
femalehiv	A data vector of female monthly HIV cases.
femaleart	A data vector of female monthly ART cases.
childhiv	A data vector of child monthly HIV cases.
childart	A data vector of child monthly ART cases.
tghiv	A data vector of transgender monthly HIV cases.
tgart	A data vector of transgender monthly ART cases.

### Details

We provide the monthly number of HIV and ART cases of male, female, children, and transgender reported at various treatment centers in Pakistan from January 2016 to December 2021.

### Value

malehiv, maleart, femalehiv, femaleart, childhiv, childart, tghiv and tgart give the monthly reported HIV and ART cases of males, females, children and transgenders, respectively.

### Author(s)

Muhammad Imran

R implementation and documentation: Muhammad Imran <imranshako0r84@yahoo.com>.

### References

Imran, M., Nasir, J. A., & Riaz, S. (2018). Regional pattern of HIV cases in Pakistan. *Journal of Postgraduate Medical Institute*, 32(1), 9-13.

### See Also

[allpakhiv](#), [allpakart](#)

**Examples**

```
malehiv
maleart
femalehiv
femaleart
childhiv
childart
tghiv
tgart
# Descriptive summary of monthly male HIV cases
summary(malehiv)
# Descriptive summary of monthly male ART cases
summary(maleart)
# PACF plot
stats::pacf(malehiv)
# ACF plot
stats::acf(malehiv)
```

---

HIV and ART cases in Pakistan

*Monthly reported HIV and ART cases of whole Pakistan*

---

**Description**

The function provides the reported HIV and ART cases whole of Pakistan from January 2016 to December 2021.

**Usage**

```
allpakhiv
allpakart
```

**Arguments**

allpakhiv	A data vector of monthly HIV cases.
allpakart	A data vector of monthly ART cases.

**Details**

We provide the monthly number of HIV and ART cases of overall Pakistan, reported at various treatment centers from January 2016 to December 2021.

**Value**

allpakhiv and allpakart give the monthly reported HIV and ART cases.

**Author(s)**

Muhammad Imran

R implementation and documentation: Muhammad Imran <imranshako0r84@yahoo.com>.

**References**

Imran, M., Nasir, J. A., & Riaz, S. (2018). Regional pattern of HIV cases in Pakistan. *Journal of Postgraduate Medical Institute*, 32(1), 9-13.

**See Also**

[malehiv](#), [maleart](#), [femalehiv](#), [femaleart](#), [childhiv](#), [childart](#), [tghiv](#), [tgart](#)

**Examples**

```
allpakhiv
allpakart
# Descriptive summary of monthly HIV cases in Pakistan
summary(allpakhiv)
# PACF plot
stats::pacf(allpakhiv)
# ACF plot
stats::acf(allpakhiv)
```

# Index

\* **Antiretroviral therapy**

hivdata-package, 2

\* **HIV-AIDS**

hivdata-package, 2

\* **Time series data**

hivdata-package, 2

allpakart, 3

allpakart (HIV and ART cases in  
Pakistan), 4

allpakhiv, 3

allpakhiv (HIV and ART cases in  
Pakistan), 4

childart, 5

childart (HIV and ART cases), 2

childhiv, 5

childhiv (HIV and ART cases), 2

femaleart, 5

femaleart (HIV and ART cases), 2

femalehiv, 5

femalehiv (HIV and ART cases), 2

HIV and ART cases, 2

HIV and ART cases in Pakistan, 4

hivdata-package, 2

maleart, 5

maleart (HIV and ART cases), 2

malehiv, 5

malehiv (HIV and ART cases), 2

tgart, 5

tgart (HIV and ART cases), 2

tghiv, 5

tghiv (HIV and ART cases), 2