

# Package ‘HSEtest’

May 10, 2021

**Type** Package

**Title** Homogeneity of Stratum Effects Test

**Version** 0.1.0

**Author** Zhicheng Du, Yuantao Hao

**Maintainer** Zhicheng Du<dgdzc@hotmail.com>

**Description** To test the homogeneity of stratum effects in stratified paired binary data.

**License** GPL-3

**Encoding** UTF-8

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2021-05-10 08:12:12 UTC

## R topics documented:

HSE . . . . .	1
<b>Index</b>	<b>3</b>

---

HSE	<i>Homogeneity of Stratum Effects Test</i>
-----	--

---

### Description

To test the homogeneity of stratum effects in stratified paired binary data.

### Usage

HSE(Tab)

### Arguments

Tab            the table combining k 2\*2 tables by rows, k is 1,2,...,n

**Value**

T	the statistic following the chi-squared distribution
p	the p value, if $p < 0.05$ , there was a statistically significant difference among the stratum

**Note**

Please feel free to contact us, if you have any advice and find any bug!

Reference:

1. Yan D. Zhao, Dewi Rahardja, De-Hui Wang & Haili Shen (2014) Testing Homogeneity of Stratum Effects in Stratified Paired Binary Data, Journal of Biopharmaceutical Statistics, 24:3, 600-607, DOI: 10.1080/10543406.2014.888440

Update:

Version 0.1.0: The first version.

**Examples**

```
table1 <- matrix(c(30,4,3,20),ncol=2)
table2 <- matrix(c(25,2,3,20),ncol=2)
table <- rbind(table1,table2)
HSE(table)
```

# Index

HSE, 1