Package ‘TERAplusB’

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Title Test for A+B Traditional Escalation Rule
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Description This package is for the comparison of various types of A+B escalation rules for dose finding trials.
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R topics documented:

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Description
TERAplusB is designed for the comparison of various A+B TER.

Author(s)
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**TER.deesc.1.B**

**Description**

TER.deesc.1.B finds all possible combinations of 1+B design with specific dose-toxicity relations.

**Usage**

```r
TER.deesc.1.B(Dose, Prob.Dose, B, C, D, E)
```

**Arguments**

- **Dose**: Dose levels
- **Prob.Dose**: True Probability of toxicity
- **B**: Number of added patients
- **C**: Cutoff point 1
- **D**: Cutoff point 2
- **E**: Cutoff point 3

**Value**

- **tot.list**: All possible combinations of 1+B design
- **Prob.result**: Expected distribution of MTD
- **E.toxrate**: Expected toxicity rate
- **E.n**: Expected number of patients
- **E.time**: Expected number of periods

**References**

Adaptive Design Methods in Clinical Trials - Chow and Chung

**Examples**

```r
library(TERAplusB)
TER.deesc.1.B(c("D1","D2"),c(0.2,0.7),B=3,C=1,D=1,E=2)
```
TER.deesc.A.B

Find the bootstrap distribution

Description

TER.deesc.A.B finds all possible combinations of A+B design with specific dose-toxicity relations.

Usage

TER.deesc.A.B(Dose, Prob.Dose, A, B, C, D, E)

Arguments

Dose
Dose levels
Prob.Dose
True Probability of toxicity
A
Number of patients in each level
B
Number of added patients
C
Cutoff point 1
D
Cutoff point 2
E
Cutoff point 3

Value

tot.list
All possible combinations of 1+B design
Prob.result
Exact distribution of MTD
E.toxrate
Expected toxicity rate
E.n
Expected number of patients
E.time
Expected number of periods

References

Adaptive Design Methods in Clinical Trials - Chow and Chung

Examples

library(TERaplusB)
TER.deesc.A.B(c("D1","D2"),c(0.2,0.7),A=3,B=3,C=1,D=2,E=2)
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