

# Package ‘RISmed’

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**Type** Package

**Title** Download Content from NCBI Databases

**Date** 2021-07-02

**Depends** R (>= 3.6.0), methods

**Imports** httr, xml2

**Description** A set of tools to extract bibliographic content from the National Center for Biotechnology Information (NCBI) databases, including PubMed. The name RISmed is a portmanteau of RIS (for Research Information Systems, a common tag format for bibliographic data) and PubMed.

**License** GPL (>= 2)

**LazyData** true

**NeedsCompilation** no

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---

RISmed-package	<i>Download content from NCBI databases.</i>
----------------	--

---

## Description

Download content from NCBI databases. This package is intended to facilitate analyses of NCBI database content. This package is not intended for reference management.

## Details

Package:	RISmed
Type:	Package
Version:	2.1.3
Date:	2014-7-20
License:	GPL (>=2)
LazyLoad:	yes

Note on usage:

In order not to overload the E-utility servers, NCBI recommends that users post no more than three URL requests per second and limit large jobs to either weekends or between 9:00 PM and 5:00 AM Eastern time during weekdays. Failure to comply with this policy may result in an IP address being blocked from accessing NCBI.

## Author(s)

Maintainer: Stephanie Kovalchik <s.a.kovalchik@gmail.com>

---

AbstractText                    *Extracts AbstractText from Medline object.*

---

**Description**

Extractor for the AbstractText of a Medline object.

**Usage**

```
AbstractText(object)
```

**Arguments**

object                    instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
AbstractText(myeloma)
```

---

AbstractText-methods    *~~ Methods for Function AbstractText in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function AbstractText in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

Affiliation                      *Extracts Affiliation from Medline object.*

---

**Description**

Extractor for the Affiliation of a Medline object.

**Usage**

```
Affiliation(object)
```

**Arguments**

object                      instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Affiliation(myeloma)
```

---

Affiliation-methods            *~~ Methods for Function Affiliation in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function Affiliation in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

ArticleId	<i>Extracts ArticleId from Medline object.</i>
-----------	--

---

**Description**

Extractor for the ArticleId of a Medline object.

**Usage**

```
ArticleId(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)  
ArticleId(myeloma)
```

---

ArticleId-methods	<i>~~ Methods for Function ArticleId in Package <b>RISmed</b> ~~</i>
-------------------	--

---

**Description**

*~~ Methods for function ArticleId in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```



---

ArticleTitle                    *Extracts ArticleTitle from Medline object.*

---

**Description**

Extractor for the ArticleTitle of a Medline object.

**Usage**

```
ArticleTitle(object)
```

**Arguments**

object                    instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
ArticleTitle(myeloma)
```

---

ArticleTitle-methods    *~~ Methods for Function ArticleTitle in Package RISmed ~~*

---

**Description**

*~~ Methods for function ArticleTitle in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

Author                      *Extracts Author from Medline object.*

---

**Description**

Extractor for the Author of a Medline object.

**Usage**

```
Author(object)
```

**Arguments**

object                      instance of class Medline

**Value**

List by Pubmed article. Each list contains a data frame with CollectiveName, LastName, ForeName, Initials, and order of article authors.

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Author(myeloma)
```

---

Author-methods                      *~~ Methods for Function Author in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function Author in package **RISmed** ~~*

**Methods**

signature(object = "Medline") List by Pubmed article. Each list contains a data frame with LastName, ForeName, Initials, and order of article authors.

---

c,Medline-method	<i>Concatenate Medline</i>
------------------	----------------------------

---

**Description**

Concatenates multiple Medline objects

**Usage**

```
## S4 method for signature 'Medline'  
c(x, ...)
```

**Arguments**

x	a Medline object
...	Additional Medline objects to concatenate

**Value**

A Medline object

---

Citations	<i>List of citing article titles where listed in PubMed.</i>
-----------	--

---

**Description**

Retrieves the number of citations in PubMed Central for the articles contained in the Medline object.

**Usage**

```
Citations(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**See Also**

[Medline](#)

---

Citations-methods     *~~ Methods for Function Citations in Package **RISmed** ~~*

---

**Description**

~~ Methods for function Citations in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

COIStatement     *Extracts COIStatement from Medline object.*

---

**Description**

Extractor for the COIStatement of a Medline object.

**Usage**

COIStatement(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

---

COIStatement-methods     *~~ Methods for Function COIStatement in Package **RISmed** ~~*

---

**Description**

~~ Methods for function COIStatement in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

CopyrightInformation *Extracts CopyrightInformation from Medline object.*

---

**Description**

Extractor for the CopyrightInformation of a Medline object.

**Usage**

```
CopyrightInformation(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
CopyrightInformation(myeloma)
```

---

CopyrightInformation-methods

*~~ Methods for Function CopyrightInformation in Package  
RISmed ~~*

---

**Description**

*~~ Methods for function CopyrightInformation in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

Country	<i>Extracts Country from Medline object.</i>
---------	--

---

**Description**

Extractor for the Country of a Medline object.

**Usage**

```
Country(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)  
Country(myeloma)
```

---

Country-methods	<i>~~ Methods for Function Country in Package <b>RISmed</b> ~~</i>
-----------------	--

---

**Description**

*~~ Methods for function Country in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayAccepted	<i>Extracts DayAccepted from Medline object.</i>
-------------	--

---

**Description**

Extractor for the DayAccepted of a Medline object. This date corresponds to the date the article was accepted.

**Usage**

```
DayAccepted(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayAccepted(myeloma)
```

---

DayAccepted-methods    *~~ Methods for Function DayAccepted in Package RISmed ~~*

---

**Description**

*~~ Methods for function DayAccepted in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayArticleDate	<i>Extracts DayArticleDate from Medline object.</i>
----------------	---

---

**Description**

Extractor for the DayArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
DayArticleDate(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayArticleDate(myeloma)
```

---

DayArticleDate-methods

*~~ Methods for Function DayArticleDate in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function DayArticleDate in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```



---

DayEntrez	<i>Extracts DayEntrez from Medline object.</i>
-----------	--

---

**Description**

Extractor for the DayEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
DayEntrez(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayEntrez(myeloma)
```

---

DayEntrez-methods	<i>~~ Methods for Function DayEntrez in Package <b>RISmed</b> ~~</i>
-------------------	--

---

**Description**

*~~ Methods for function DayEntrez in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayEpublish	<i>Extracts DayEpublish from Medline object.</i>
-------------	--

---

**Description**

Extractor for the DayEpublish of a Medline object. This date corresponds to the date the article was published online.

**Usage**

```
DayEpublish(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayEpublish(myeloma)
```

---

DayEpublish-methods    *~~ Methods for Function DayEpublish in Package RISmed ~~*

---

**Description**

*~~ Methods for function DayEpublish in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayMedline	<i>Extracts DayMedline from Medline object.</i>
------------	---

---

**Description**

Extractor for the DayMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
DayMedline(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayMedline(myeloma)
```

---

DayMedline-methods	<i>~~ Methods for Function DayMedline in Package <b>RISmed</b> ~~</i>
--------------------	---

---

**Description**

*~~ Methods for function DayMedline in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayPmc	<i>Extracts DayPmc from Medline object.</i>
--------	---

---

**Description**

Extractor for the DayPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

**Usage**

```
DayPmc(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayPmc(myeloma)
```

---

DayPmc-methods	<i>~~ Methods for Function DayPmc in Package <b>RISmed</b> ~~</i>
----------------	---

---

**Description**

*~~ Methods for function DayPmc in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayPublish	<i>Extracts DayPublish from Medline object.</i>
------------	---

---

**Description**

Extractor for the DayPublish of a Medline object. This date corresponds to the date the article was published in print.

**Usage**

```
DayPublish(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayPublish(myeloma)
```

---

DayPublish-methods	<i>~~ Methods for Function DayPublish in Package <b>RISmed</b> ~~</i>
--------------------	---

---

**Description**

*~~ Methods for function DayPublish in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayPubDate	<i>Extracts DayPubDate from Medline object.</i>
------------	---

---

**Description**

Extractor for the DayPubDate of a Medline object. This date corresponds to the date the article was PubDate.

**Usage**

```
DayPubDate(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayPubDate(myeloma)
```

---

DayPubDate-methods	<i>~~ Methods for Function DayPubDate in Package <b>RISmed</b> ~~</i>
--------------------	---

---

**Description**

*~~ Methods for function DayPubDate in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayPubmed	<i>Extracts DayPubmed from Medline object.</i>
-----------	--

---

**Description**

Extractor for the DayPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

**Usage**

```
DayPubmed(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayPubmed(myeloma)
```

---

DayPubmed-methods	<i>~~ Methods for Function DayPubmed in Package <b>RISmed</b> ~~</i>
-------------------	--

---

**Description**

*~~ Methods for function DayPubmed in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DayReceived	<i>Extracts DayReceived from Medline object.</i>
-------------	--

---

**Description**

Extractor for the DayReceived of a Medline object. This date corresponds to the date the article was received.

**Usage**

```
DayReceived(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayReceived(myeloma)
```

---

DayReceived-methods	<i>~~ Methods for Function DayReceived in Package RISmed ~~</i>
---------------------	---

---

**Description**

*~~ Methods for function DayReceived in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```



---

DayRevised	<i>Extracts DayRevised from Medline object.</i>
------------	---

---

**Description**

Extractor for the DayRevised of a Medline object. This date corresponds to the date the article was Revised.

**Usage**

```
DayRevised(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DayRevised(myeloma)
```

---

DayRevised-methods	<i>~~ Methods for Function DayRevised in Package <b>RISmed</b> ~~</i>
--------------------	---

---

**Description**

*~~ Methods for function DayRevised in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

DOI	<i>Extracts DOI from Medline object.</i>
-----	--

---

**Description**

Extractor for the DOI of a Medline object.

**Usage**

```
DOI(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
DOI(myeloma)
```

---

DOI-methods	<i>~~ Methods for Function DOI in Package <b>RISmed</b> ~~</i>
-------------	--

---

**Description**

*~~ Methods for function DOI in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

ELocationID	<i>Extracts ELocationID from Medline object.</i>
-------------	--

---

**Description**

Extractor for the ELocationID of a Medline object.

**Usage**

```
ELocationID(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
ELocationID(myeloma)
```

---

ELocationID-methods	<i>~~ Methods for Function ELocationID in Package <b>RISmed</b> ~~</i>
---------------------	--

---

**Description**

*~~ Methods for function ELocationID in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

**EUtilsGet***Results of an NCBI EUtils query*

---

**Description**

Download results of a query for any database of the National Center for Biotechnology Information (NCBI).

**Usage**

```
EUtilsGet(x, type="efetch", db="pubmed")
```

**Arguments**

x	Either vector of NCBI records ids, i.e. returned ids from EUtilsSummary, or the EUtilsSummary object itself
type	string indicating type of NCBI Eutility, efetch, esummary, etc.
db	string indicating the NCBI database used in query

**Details**

Possible E-utilities to supply to type are efetch, esummary, and elink.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Note on usage:

In order not to overload the E-utility servers, NCBI recommends that users post no more than three URL requests per second and limit large jobs to either weekends or between 9:00 PM and 5:00 AM Eastern time during weekdays. Failure to comply with this policy may result in an IP address being blocked from accessing NCBI.

**Value**

For queries to PubMed, a list by article, with named vectors for each field of the article result.

For all other database, a list of the XML tree structure used where XML output is available in E-Utils.

**Author(s)**

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

**References**

Summary help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

**See Also**

[EUtilsSummary](#)

---

EUtilsQuery

*Construct URL to make NCBI EUtils query*

---

**Description**

Construct a URL query for any database of the National Center for Biotechnology Information (NCBI).

**Usage**

EUtilsQuery(query, type="esearch", db="pubmed", ...)

**Arguments**

query	string query as given in NCBI search box
type	string indicating type of NCBI Eutility
db	string indicating the NCBI database used in query
...	additional limits added to query

**Details**

Possible E-utilities to supply to type are einfo, esearch, epost, esummary, elink, equery, espell.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Limits that can be supplied to ... to refine the query include:

reldate	Limits search results to be within the specified number of days from current date.
mindate	Minimum of date range for search results (examples: 2002; 2002/01/01); must be supplied with maxdate.
maxdate	Maximum of date range for search results; must be supplied with mindate.
datatype	Which date field to use in setting date limits. Possible choices are edat, Entrez date, which is the date article was
retstart	Where in the sequence of returned results to begin retrieving, default is 0.
retmax	Maximum number of records to retrieve, default is 1000.

**Value**

String URL to access NCBI E-utility.

**Author(s)**

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

**References**

Query help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

**Examples**

```
# PUBMED QUERY
EUtilsQuery("myeloma[ti] jones[au]")

# RESTRICT TO RECORDS WITHIN LAST 30 days
EUtilsQuery("myeloma[ti] jones[au]",reldat=30)
```

---

EUtilsSummary

*Get summary of NCBI EUtils query*

---

**Description**

Get summary information on the results of a query for any database of the National Center for Biotechnology Information (NCBI).

**Usage**

```
EUtilsSummary(query, type="esearch", db="pubmed", url=NULL, encoding="unknown", ...)
```

**Arguments**

query	string query as given in NCBI search box
type	string indicating type of NCBI Eutility
db	string indicating the NCBI database used in query
url	string of url to bypass query construction
encoding	encoding to be assumed for input strings, see <a href="#">readLines</a>
...	additional limits added to query

**Details**

Possible E-utilities to supply to type are einfo, esearch, epost, esummary, elink, egquery, espell.

The database name supplied to db can be any valid Entrez database, such as pubmed, protein, nlm, etc.

For further details on available E-utilities and databases visit <https://www.ncbi.nlm.nih.gov/books/NBK25499/>.

Limits that can be supplied to . . . to refine the query include:

reldate	Limits search results to be within the specified number of days from current date.
mindate	Minimum of date range for search results (examples: 2002; 2002/01/01); must be supplied with maxdate.
maxdate	Maximum of date range for search results; must be supplied with mindate.
datetype	Which date field to use in setting date limits. Possible choices are edat, Entrez date, which is the date article was
restart	Where in the sequence of returned results to begin retrieving, default is 0.
retmax	Maximum number of records to retrieve, default is 1000.

**Value**

Returns an EUtilsSummary object.

**Author(s)**

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

**References**

Summary help:

<https://www.ncbi.nlm.nih.gov/books/NBK3827/>

MEDLINE/PubMed Field Descriptions

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html>

**See Also**

[EUtilsQuery](#)

---

EUtilsSummary-class    *Class "EUtilsSummary"*

---

**Description**

Summary of query of an NCBI E-utility

**Objects from the Class**

Objects can be created by calls of the form `new("EUtilsSummary", ...)`.

**Slots**

**db:** Name of database  
**count:** total ids  
**retmax:** limit on number of records to return  
**retstart:** numeric indicating where return records start  
**PMID:** character vector of matching ids  
**querytranslation:** character of NCBI translation of query

**Methods**

**QueryCount** signature(object = "EUtilsSummary"): ...  
**QueryId** signature(object = "EUtilsSummary"): ...  
**print** signature(x = "EUtilsSummary"): ...  
**show** signature(object = "EUtilsSummary"): ...  
**summary** signature(object = "EUtilsSummary"): ...  
**QueryTranslation** signature(object = "EUtilsSummary"): ...

**Author(s)**

Stephanie Kovalchik

---

GrantID	<i>Extracts list of GrantID info Medline object including GrantID and GrantAgency where listed in PubMed.</i>
---------	---

---

**Description**

Extractor for the GrantID of a Medline object.

**Usage**

GrantID(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)



**Examples**

```
data(myeloma)
GrantID(myeloma)
```

---

GrantID-methods      *~~ Methods for Function GrantID in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function GrantID in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

HourAccepted      *Extracts HourAccepted from Medline object.*

---

**Description**

Extractor for the HourAccepted of a Medline object. This date corresponds to the date the article was accepted.

**Usage**

```
HourAccepted(object)
```

**Arguments**

object      instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
HourAccepted(myeloma)
```

---

HourAccepted-methods    *~~ Methods for Function HourAccepted in Package **RISmed** ~~*

---

### Description

*~~ Methods for function HourAccepted in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

HourEntrez                    *Extracts HourEntrez from Medline object.*

---

### Description

Extractor for the HourEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

HourEntrez(object)

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
HourEntrez(myeloma)
```

---

HourEntrez-methods     *~~ Methods for Function HourEntrez in Package **RISmed** ~~*

---

**Description**

~~ Methods for function HourEntrez in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

HourEpublish     *Extracts HourEpublish from Medline object.*

---

**Description**

Extractor for the HourEpublish of a Medline object. This date corresponds to the date the article was published online.

**Usage**

```
HourEpublish(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
HourEpublish(myeloma)
```

---

HourEpublish-methods    *~~ Methods for Function HourEpublish in Package **RISmed** ~~*

---

### Description

*~~ Methods for function HourEpublish in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

HourMedline                    *Extracts HourMedline from Medline object.*

---

### Description

Extractor for the HourMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

HourMedline(object)

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
HourMedline(myeloma)
```

---

HourMedline-methods    *~~ Methods for Function HourMedline in Package **RISmed** ~~*

---

### Description

*~~ Methods for function HourMedline in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

HourPmc                    *Extracts HourPmc from Medline object.*

---

### Description

Extractor for the HourPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

### Usage

```
HourPmc(object)
```

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
HourPmc(myeloma)
```

HourPmc-methods      *~~ Methods for Function HourPmc in Package **RISmed** ~~*

---

**Description**

~~ Methods for function HourPmc in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

HourPublish      *Extracts HourPublish from Medline object.*

---

**Description**

Extractor for the HourPublish of a Medline object. This date corresponds to the date the article was published in print.

**Usage**

```
HourPublish(object)
```

**Arguments**

object      instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
HourPublish(myeloma)
```

---

HourPublish-methods    *~~ Methods for Function HourPublish in Package **RISmed** ~~*

---

### Description

*~~ Methods for function HourPublish in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

HourPubmed                    *Extracts HourPubmed from Medline object.*

---

### Description

Extractor for the HourPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

### Usage

```
HourPubmed(object)
```

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
HourPubmed(myeloma)
```

---

HourPubmed-methods     *~~ Methods for Function HourPubmed in Package **RISmed** ~~*

---

### Description

*~~ Methods for function HourPubmed in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

HourReceived     *Extracts HourReceived from Medline object.*

---

### Description

Extractor for the HourReceived of a Medline object. This date corresponds to the date the article was received.

### Usage

HourReceived(object)

### Arguments

object            instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
HourReceived(myeloma)
```



---

HourReceived-methods    *~~ Methods for Function HourReceived in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function HourReceived in package **RISmed** ~~*

**Methods**

signature(object = "Medline")

---

ISOAbbreviation        *Extracts ISOAbbreviation from Medline object.*

---

**Description**

Extractor for the ISOAbbreviation of a Medline object.

**Usage**

ISOAbbreviation(object)

**Arguments**

object                instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
ISOAbbreviation(myeloma)
```

---

ISOAbbreviation-methods

~~ *Methods for Function ISOAbbreviation in Package RISmed* ~~

---

### Description

~~ Methods for function ISOAbbreviation in package **RISmed** ~~

### Methods

signature(object = "Medline")

---

ISSN

*Extracts ISSN from Medline object.*

---

### Description

Extractor for the ISSN of a Medline object.

### Usage

ISSN(object)

### Arguments

object           instance of class Medline

### Value

vector

### See Also

[Medline](#)

### Examples

```
data(myeloma)
ISSN(myeloma)
```

---

ISSN-methods

~~ *Methods for Function ISSN in Package* **RISmed** ~~

---

### Description

~~ Methods for function ISSN in package **RISmed** ~~

### Methods

signature(object = "Medline")

---

ISSNLinking

*Extracts ISSNLinking from Medline object.*

---

### Description

Extractor for the ISSNLinking of a Medline object.

### Usage

ISSNLinking(object)

### Arguments

object            instance of class Medline

### Value

vector

### See Also

[Medline](#)

### Examples

```
data(myeloma)
ISSNLinking(myeloma)
```

---

ISSNLinking-methods    *~~ Methods for Function ISSNLinking in Package **RISmed** ~~*

---

### Description

*~~ Methods for function ISSNLinking in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

Issue                      *Extracts Issue from Medline object.*

---

### Description

Extractor for the Issue of a Medline object.

### Usage

Issue(object)

### Arguments

object                    instance of class Medline

### Value

vector

### See Also

[Medline](#)

### Examples

```
data(myeloma)
Issue(myeloma)
```

---

Issue-methods                    *~~ Methods for Function Issue in Package **RISmed** ~~*

---

**Description**

~~ Methods for function Issue in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

Keywords                    *Extracts list of Keywords info from Medline object.*

---

**Description**

Extractor for the Keywords of a Medline object.

**Usage**

Keywords(object)

**Arguments**

object                    instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Keywords(myeloma)
```

---

Keywords-methods      *~~ Methods for Function Keywords in Package **RISmed** ~~*

---

**Description**

~~ Methods for function Keywords in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

Language      *Extracts Language from Medline object.*

---

**Description**

Extractor for the Language of a Medline object.

**Usage**

Language(object)

**Arguments**

object      instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Language(myeloma)
```

---

Language-methods      *~~ Methods for Function Language in Package RISmed ~~*

---

**Description**

~~ Methods for function Language in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

Medline-class      *Class "Medline"*

---

**Description**

Class for Medline citation of query to PubMed.

**Objects from the Class**

Objects can be created by calls of the form `new("Medline", ...)`.

**Slots**

Unless stated otherwise, each of the components is a vector of the given field where each element corresponds to a PubMed article.

Query:

PMID:

YearPubDate:

MonthPubDate:

DayPubDate:

YearRevised:

MonthRevised:

DayRevised:

YearEntrez:

MonthEntrez:

DayEntrez:

HourEntrez:

MinuteEntrez:

YearArticleDate:

MonthArticleDate:

DayArticleDate:  
YearMedline:  
MonthMedline:  
DayMedline:  
HourMedline:  
MinuteMedline:  
YearAccepted:  
MonthAccepted:  
DayAccepted:  
HourAccepted:  
MinuteAccepted:  
YearReceived:  
MonthReceived:  
DayReceived:  
HourReceived:  
MinuteReceived:  
YearEpublish:  
MonthEpublish:  
DayEpublish:  
HourEpublish:  
MinuteEpublish:  
YearPpublish:  
MonthPpublish:  
DayPpublish:  
HourPpublish:  
MinutePpublish:  
YearPmc:  
MonthPmc:  
DayPmc:  
HourPmc:  
MinutePmc:  
YearPubmed:  
MonthPubmed:  
DayPubmed:  
HourPubmed:  
MinutePubmed:

Author: list of data frames giving LastName, ForeName, Initials, and order of authors by PubMed article.



ISSN:  
Title:  
ArticleTitle:  
ELocationID:  
AbstractText:  
Affiliation:  
Language:  
PublicationType:  
MedlineTA:  
NlmUniqueID:  
ISSNLinking:  
PublicationStatus:  
ArticleId:  
DOI:  
Volume:  
Issue:  
ISOAbbreviation:  
MedlinePgn:  
CopyrightInformation:  
Country:  
GrantID:  
COIStatement:  
Mesh: list of data frames giving Heading and Type of MeSH term or NA if no terms are in MED-  
LINE record  
Keywords:  
Citations:

## Methods

In addition to print and show methods, each slot of the Medline class has a corresponding extractor of the same name.

**print** signature(x = "Medline",...): ...  
**show** signature(object = "Medline"): ...  
**c** signature(x = "Medline",...): ...  
**Query** signature(object = "Medline"): ...  
**PMID** signature(object = "Medline"): ...  
**YearPubDate** signature(object = "Medline"): ...  
**MonthPubDate** signature(object = "Medline"): ...

**DayPubDate** signature(object = "Medline"): ...  
**YearRevised** signature(object = "Medline"): ...  
**MonthRevised** signature(object = "Medline"): ...  
**DayRevised** signature(object = "Medline"): ...  
**YearEntrez** signature(object = "Medline"): ...  
**MonthEntrez** signature(object = "Medline"): ...  
**DayEntrez** signature(object = "Medline"): ...  
**HourEntrez** signature(object = "Medline"): ...  
**MinuteEntrez** signature(object = "Medline"): ...  
**YearArticleDate** signature(object = "Medline"): ...  
**MonthArticleDate** signature(object = "Medline"): ...  
**DayArticleDate** signature(object = "Medline"): ...  
**YearMedline** signature(object = "Medline"): ...  
**MonthMedline** signature(object = "Medline"): ...  
**DayMedline** signature(object = "Medline"): ...  
**HourMedline** signature(object = "Medline"): ...  
**MinuteMedline** signature(object = "Medline"): ...  
**YearAccepted** signature(object = "Medline"): ...  
**MonthAccepted** signature(object = "Medline"): ...  
**DayAccepted** signature(object = "Medline"): ...  
**HourAccepted** signature(object = "Medline"): ...  
**MinuteAccepted** signature(object = "Medline"): ...  
**YearReceived** signature(object = "Medline"): ...  
**MonthReceived** signature(object = "Medline"): ...  
**DayReceived** signature(object = "Medline"): ...  
**HourReceived** signature(object = "Medline"): ...  
**MinuteReceived** signature(object = "Medline"): ...  
**YearEpublish** signature(object = "Medline"): ...  
**MonthEpublish** signature(object = "Medline"): ...  
**DayEpublish** signature(object = "Medline"): ...  
**HourEpublish** signature(object = "Medline"): ...  
**MinuteEpublish** signature(object = "Medline"): ...  
**YearPpublish** signature(object = "Medline"): ...  
**MonthPpublish** signature(object = "Medline"): ...  
**DayPpublish** signature(object = "Medline"): ...  
**HourPpublish** signature(object = "Medline"): ...  
**MinutePpublish** signature(object = "Medline"): ...

**YearPmc** signature(object = "Medline"): ...  
**MonthPmc** signature(object = "Medline"): ...  
**DayPmc** signature(object = "Medline"): ...  
**HourPmc** signature(object = "Medline"): ...  
**MinutePmc** signature(object = "Medline"): ...  
**YearPubmed** signature(object = "Medline"): ...  
**MonthPubmed** signature(object = "Medline"): ...  
**DayPubmed** signature(object = "Medline"): ...  
**HourPubmed** signature(object = "Medline"): ...  
**MinutePubmed** signature(object = "Medline"): ...  
**Author** signature(object = "Medline"): ...  
**ISSN** signature(object = "Medline"): ...  
**Title** signature(object = "Medline"): ...  
**ArticleTitle** signature(object = "Medline"): ...  
**ELocationID** signature(object = "Medline"): ...  
**AbstractText** signature(object = "Medline"): ...  
**Affiliation** signature(object = "Medline"): ...  
**Language** signature(object = "Medline"): ...  
**PublicationType** signature(object = "Medline"): ...  
**MedlineTA** signature(object = "Medline"): ...  
**NlmUniqueID** signature(object = "Medline"): ...  
**ISSNLinking** signature(object = "Medline"): ...  
**PublicationStatus** signature(object = "Medline"): ...  
**ArticleId** signature(object = "Medline"): ...  
**DOI** signature(object = "Medline"): ...  
**Volume** signature(object = "Medline"): ...  
**Issue** signature(object = "Medline"): ...  
**ISOAbbreviation** signature(object = "Medline"): ...  
**MedlinePgn** signature(object = "Medline"): ...  
**CopyrightInformation** signature(object = "Medline"): ...  
**Country** signature(object = "Medline"): ...  
**GrantID** signature(object = "Medline"): ...  
**COIStatement** signature(object = "Medline"): ...  
**Mesh** signature(object = "Medline"): ...  
**Keywords** signature(object = "Medline"): ...  
**Affiliations** signature(object = "Medline"): ...

**Author(s)**

Stephanie Kovalchik

---

MedlinePgn	<i>Extracts MedlinePgn from Medline object.</i>
------------	---

---

**Description**

Extractor for the MedlinePgn of a Medline object.

**Usage**

```
MedlinePgn(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MedlinePgn(myeloma)
```

---

MedlinePgn-methods	<i>~~ Methods for Function MedlinePgn in Package <b>RISmed</b> ~~</i>
--------------------	---

---

**Description**

~~ Methods for function MedlinePgn in package **RISmed** ~~

**Methods**

```
signature(object = "Medline")
```

---

MedlineTA	<i>Extracts MedlineTA from Medline object.</i>
-----------	--

---

**Description**

Extractor for the MedlineTA of a Medline object.

**Usage**

```
MedlineTA(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MedlineTA(myeloma)
```

---

MedlineTA-methods	<i>~~ Methods for Function MedlineTA in Package <b>RISmed</b> ~~</i>
-------------------	--

---

**Description**

*~~ Methods for function MedlineTA in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

Mesh	<i>Extracts Mesh headings from Medline object.</i>
------	--

---

**Description**

Extractor for the Mesh headings of a Medline object.

**Usage**

Mesh(object)

**Arguments**

object            instance of class Medline

**Details**

In Process and publisher-supplied records lack MeSH terms. See the MeSH home page <https://www.nlm.nih.gov/mesh/meshhome.html> for additional information about MeSH. Note that more recent records may lack MeSH headings.

**Value**

List by Pubmed article. Each list contains a data frame with Heading and Type. The Heading is a MeSH Term and Type is either a Descriptor or a Qualifier of a Descriptor term. Qualifiers of a Descriptor immediately follow the Descriptor term in the data frame. When MeSH headings have not been included with a MEDLINE record, the list will contain NAs (see details).

**See Also**

[Medline](#)

---

Mesh-methods	<i>~~ Methods for Function Mesh in Package <b>RISmed</b> ~~</i>
--------------	---

---

**Description**

*~~ Methods for function Mesh in package **RISmed** ~~*

**Methods**

signature(object = "Medline") List by Pubmed article. Each list contains a data frame with Heading and Type. The Heading is a MeSH Term and Type is either a Descriptor or a Qualifier of a Descriptor term.

---

MinuteAccepted	<i>Extracts MinuteAccepted from Medline object.</i>
----------------	---

---

**Description**

Extractor for the MinuteAccepted of a Medline object. This date corresponds to the date the article was accepted.

**Usage**

```
MinuteAccepted(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinuteAccepted(myeloma)
```

---

MinuteAccepted-methods

*~~ Methods for Function MinuteAccepted in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MinuteAccepted in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinuteEntrez	<i>Extracts MinuteEntrez from Medline object.</i>
--------------	---

---

**Description**

Extractor for the MinuteEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
MinuteEntrez(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinuteEntrez(myeloma)
```

---

MinuteEntrez-methods    *~~ Methods for Function MinuteEntrez in Package RISmed ~~*

---

**Description**

*~~ Methods for function MinuteEntrez in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```



---

MinuteEpublish	<i>Extracts MinuteEpublish from Medline object.</i>
----------------	---

---

**Description**

Extractor for the MinuteEpublish of a Medline object. This date corresponds to the date the article was published online.

**Usage**

```
MinuteEpublish(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinuteEpublish(myeloma)
```

---

MinuteEpublish-methods

*~~ Methods for Function MinuteEpublish in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MinuteEpublish in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinuteMedline	<i>Extracts MinuteMedline from Medline object.</i>
---------------	--

---

**Description**

Extractor for the MinuteMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
MinuteMedline(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinuteMedline(myeloma)
```

---

MinuteMedline-methods *~~ Methods for Function MinuteMedline in Package RISmed ~~*

---

**Description**

*~~ Methods for function MinuteMedline in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinutePmc	<i>Extracts MinutePmc from Medline object.</i>
-----------	--

---

**Description**

Extractor for the MinutePmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

**Usage**

```
MinutePmc(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinutePmc(myeloma)
```

---

MinutePmc-methods	<i>~~ Methods for Function MinutePmc in Package <b>RISmed</b> ~~</i>
-------------------	--

---

**Description**

*~~ Methods for function MinutePmc in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinutePublish      *Extracts MinutePublish from Medline object.*

---

**Description**

Extractor for the MinutePublish of a Medline object. This date corresponds to the date the article was published in print.

**Usage**

```
MinutePublish(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinutePublish(myeloma)
```

---

MinutePublish-methods

*~~ Methods for Function MinutePublish in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MinutePublish in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinutePubmed	<i>Extracts MinutePubmed from Medline object.</i>
--------------	---

---

**Description**

Extractor for the MinutePubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

**Usage**

```
MinutePubmed(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinutePubmed(myeloma)
```

---

MinutePubmed-methods    *~~ Methods for Function MinutePubmed in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MinutePubmed in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MinuteReceived	<i>Extracts MinuteReceived from Medline object.</i>
----------------	---

---

**Description**

Extractor for the MinuteReceived of a Medline object. This date corresponds to the date the article was received.

**Usage**

```
MinuteReceived(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MinuteReceived(myeloma)
```

---

MinuteReceived-methods

*~~ Methods for Function MinuteReceived in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MinuteReceived in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthAccepted	<i>Extracts MonthAccepted from Medline object.</i>
---------------	--

---

**Description**

Extractor for the MonthAccepted of a Medline object. This date corresponds to the date the article was accepted.

**Usage**

```
MonthAccepted(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthAccepted(myeloma)
```

---

MonthAccepted-methods    *~~ Methods for Function MonthAccepted in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthAccepted in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthArticleDate      *Extracts MonthArticleDate from Medline object.*

---

### Description

Extractor for the MonthArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

```
MonthArticleDate(object)
```

### Arguments

object            instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
MonthArticleDate(myeloma)
```

---

MonthArticleDate-methods

*~~ Methods for Function MonthArticleDate in Package **RISmed** ~~*

---

### Description

*~~ Methods for function MonthArticleDate in package **RISmed** ~~*

### Methods

```
signature(object = "Medline")
```



---

MonthEntrez	<i>Extracts MonthEntrez from Medline object.</i>
-------------	--

---

**Description**

Extractor for the MonthEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
MonthEntrez(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthEntrez(myeloma)
```

---

MonthEntrez-methods    *~~ Methods for Function MonthEntrez in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthEntrez in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthEpublish	<i>Extracts MonthEpublish from Medline object.</i>
---------------	--

---

**Description**

Extractor for the MonthEpublish of a Medline object. This date corresponds to the date the article was published online.

**Usage**

```
MonthEpublish(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthEpublish(myeloma)
```

---

MonthEpublish-methods *~~ Methods for Function MonthEpublish in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthEpublish in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthMedline	<i>Extracts MonthMedline from Medline object.</i>
--------------	---

---

**Description**

Extractor for the MonthMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

**Usage**

```
MonthMedline(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthMedline(myeloma)
```

---

MonthMedline-methods    *~~ Methods for Function MonthMedline in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MonthMedline in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthPmc

*Extracts MonthPmc from Medline object.*

---

### Description

Extractor for the MonthPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

### Usage

```
MonthPmc(object)
```

### Arguments

object            instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
MonthPmc(myeloma)
```

---

MonthPmc-methods

*~~ Methods for Function MonthPmc in Package RISmed ~~*

---

### Description

*~~ Methods for function MonthPmc in package RISmed ~~*

### Methods

```
signature(object = "Medline")
```

---

MonthPublish	<i>Extracts MonthPublish from Medline object.</i>
--------------	---

---

**Description**

Extractor for the MonthPublish of a Medline object. This date corresponds to the date the article was published in print.

**Usage**

```
MonthPublish(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthPublish(myeloma)
```

---

MonthPublish-methods *~~ Methods for Function MonthPublish in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthPublish in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthPubDate                      *Extracts MonthPubDate from Medline object.*

---

### Description

Extractor for the MonthPubDate of a Medline object. This date corresponds to the date the article was PubDate.

### Usage

```
MonthPubDate(object)
```

### Arguments

object                      instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
MonthPubDate(myeloma)
```

---

MonthPubDate-methods    *~~ Methods for Function MonthPubDate in Package **RISmed** ~~*

---

### Description

*~~ Methods for function MonthPubDate in package **RISmed** ~~*

### Methods

```
signature(object = "Medline")
```

---

MonthPubmed	<i>Extracts MonthPubmed from Medline object.</i>
-------------	--

---

**Description**

Extractor for the MonthPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

**Usage**

```
MonthPubmed(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthPubmed(myeloma)
```

---

MonthPubmed-methods    *~~ Methods for Function MonthPubmed in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthPubmed in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```

---

MonthReceived	<i>Extracts MonthReceived from Medline object.</i>
---------------	--

---

**Description**

Extractor for the MonthReceived of a Medline object. This date corresponds to the date the article was received.

**Usage**

```
MonthReceived(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthReceived(myeloma)
```

---

MonthReceived-methods *~~ Methods for Function MonthReceived in Package RISmed ~~*

---

**Description**

*~~ Methods for function MonthReceived in package RISmed ~~*

**Methods**

```
signature(object = "Medline")
```



---

MonthRevised	<i>Extracts MonthRevised from Medline object.</i>
--------------	---

---

**Description**

Extractor for the MonthRevised of a Medline object. This date corresponds to the date the article was Revised.

**Usage**

```
MonthRevised(object)
```

**Arguments**

object	instance of class Medline
--------	---------------------------

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
MonthRevised(myeloma)
```

---

MonthRevised-methods    *~~ Methods for Function MonthRevised in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function MonthRevised in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

myeloma

*Example of results from EUtilsGet*

---

**Description**

First five records of query of NCBI PubMed for "myeloma[MeSh]" in the past year (at the time of this writing) as a Medline object.

**Usage**

myeloma

**Format**

A list object with five PubMed article records.

**Author(s)**

Stephanie Kovalchik <s.a.kovalchik@gmail.com>

**Source**

PubMed database of the US National Library of Medicine

**See Also**

[EUtilsGet,Medline](#)

---

NlmUniqueID

*Extracts NlmUniqueID from Medline object.*

---

**Description**

Extractor for the NlmUniqueID of a Medline object.

**Usage**

NlmUniqueID(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**[Medline](#)**Examples**

```
data(myeloma)
NlmUniqueID(myeloma)
```

---

NlmUniqueID-methods    *~~ Methods for Function NlmUniqueID in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function NlmUniqueID in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

PMID	<i>Extracts PMID from Medline object.</i>
------	---

---

**Description**

Extractor for the PMID of a Medline object.

**Usage**

```
PMID(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**[Medline](#)**Examples**

```
data(myeloma)
PMID(myeloma)
```

---

PMID-methods

~~ *Methods for Function PMID in Package RISmed* ~~

---

### Description

~~ Methods for function PMID in package **RISmed** ~~

### Methods

signature(object = "Medline")

---

print-Medline

*Print method for Medline object*

---

### Description

Print object of class Medline

### Methods

signature(object = "Medline") Query translation (if provided) and total fetched record count for Medline object.

---

print-methods

*Print method for EUtilsSummary object*

---

### Description

Print object of class EUtilsSummary

### Methods

signature(object = "EUtilsSummary") Query translation for EUtilsSummary object.

---

PublicationStatus      *Extracts PublicationStatus from Medline object.*

---

**Description**

Extractor for the PublicationStatus of a Medline object.

**Usage**

```
PublicationStatus(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
PublicationStatus(myeloma)
```

---

PublicationStatus-methods

~~ *Methods for Function PublicationStatus in Package **RISmed***

~~

---

**Description**

~~ Methods for function PublicationStatus in package **RISmed** ~~

**Methods**

```
signature(object = "Medline")
```

---

PublicationType      *Extracts PublicationType from Medline object.*

---

**Description**

Extractor for the PublicationType of a Medline object.

**Usage**

```
PublicationType(object)
```

**Arguments**

object            instance of class Medline

**Value**

list

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
PublicationType(myeloma)
```

---

PublicationType-methods

*~~ Methods for Function PublicationType in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function PublicationType in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

Query	<i>Extract Query from Medline object.</i>
-------	---

---

**Description**

Extractor for the translated Query of a Medline object.

**Usage**

```
Query(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Query(myeloma)
```

---

Query-methods	<i>~~ Methods for Function Query in Package <b>RISmed</b> ~~</i>
---------------	--

---

**Description**

*~~ Methods for function Query in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

QueryCount	<i>Count of record results for EUtilsQuery</i>
------------	--

---

**Description**

Returns the number of Ids from a E-utility query

**Usage**

QueryCount(object)

**Arguments**

object            object of the EUtilsSummary class.

**Value**

numeric count

**Author(s)**

Stephanie Kovalchik

**See Also**

[EUtilsSummary](#)

---

QueryId	<i>Get ids from EUtilsQuery</i>
---------	---------------------------------

---

**Description**

Returns the vector Ids from a E-utility query

**Usage**

QueryId(object)

**Arguments**

object            object of the EUtilsSummary class.

**Value**

character vector of ids



**Author(s)**

Stephanie Kovalchik

**See Also**

[EUtilsSummary](#)

---

QueryTranslation	<i>Get the NCBI query translation from EUtilsQuery</i>
------------------	--

---

**Description**

Returns the string translation of a E-utility query

**Usage**

QueryTranslation(object)

**Arguments**

object                    object of the EUtilsSummary class.

**Value**

character query translation

**Author(s)**

Stephanie Kovalchik

**See Also**

[EUtilsSummary](#)

---

show-Medline	<i>Show method for Medline object</i>
--------------	---------------------------------------

---

**Description**

Show object of class Medline

**Methods**

signature(object = "Medline") Query translation (if provided) and total fetched record count for Medline object.

---

show-methods	<i>Show method for EUtilsSummary object</i>
--------------	---

---

**Description**

Show object of class EUtilsSummary

**Methods**

signature(object = "EUtilsSummary") Query translation for EUtilsSummary object.

---

summary-methods	<i>Summary method for EUtilsSummary object</i>
-----------------	--

---

**Description**

Summary of object of class EUtilsSummary

**Methods**

signature(object = "EUtilsSummary", ...) Returns the number of records and id vector.

---

Title	<i>Extracts Title from Medline object.</i>
-------	--

---

**Description**

Extractor for the Title of a Medline object.

**Usage**

Title(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Title(myeloma)
```

---

Title-methods                    *~~ Methods for Function Title in Package **RISmed** ~~*

---

**Description**

*~~ Methods for function Title in package **RISmed** ~~*

**Methods**

```
signature(object = "Medline")
```

---

Volume                            *Extracts Volume from Medline object.*

---

**Description**

Extractor for the Volume of a Medline object.

**Usage**

```
Volume(object)
```

**Arguments**

object                    instance of class Medline

**Value**

vector

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
Volume(myeloma)
```

---

Volume-methods      *~~ Methods for Function Volume in Package **RISmed** ~~*

---

### Description

*~~ Methods for function Volume in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

YearAccepted      *Extracts YearAccepted from Medline object.*

---

### Description

Extractor for the YearAccepted of a Medline object. This date corresponds to the date the article was accepted.

### Usage

YearAccepted(object)

### Arguments

object      instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearAccepted(myeloma)
```

---

YearAccepted-methods    *~~ Methods for Function YearAccepted in Package **RISmed** ~~*

---

### Description

~~ Methods for function YearAccepted in package **RISmed** ~~

### Methods

signature(object = "Medline")

---

YearArticleDate        *Extracts YearArticleDate from Medline object.*

---

### Description

Extractor for the YearArticleDate of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

```
YearArticleDate(object)
```

### Arguments

object            instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearArticleDate(myeloma)
```

---

YearArticleDate-methods

~~ *Methods for Function YearArticleDate in Package RISmed* ~~

---

### Description

~~ Methods for function YearArticleDate in package **RISmed** ~~

### Methods

signature(object = "Medline")

---

YearEntrez

*Extracts YearEntrez from Medline object.*

---

### Description

Extractor for the YearEntrez of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

YearEntrez(object)

### Arguments

object            instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearEntrez(myeloma)
```

---

YearEntrez-methods     *~~ Methods for Function YearEntrez in Package **RISmed** ~~*

---

**Description**

~~ Methods for function YearEntrez in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

YearEpublish     *Extracts YearEpublish from Medline object.*

---

**Description**

Extractor for the YearEpublish of a Medline object. This date corresponds to the date the article was published online.

**Usage**

YearEpublish(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
YearEpublish(myeloma)
```

---

YearEpublish-methods    *~~ Methods for Function YearEpublish in Package **RISmed** ~~*

---

### Description

*~~ Methods for function YearEpublish in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

YearMedline                    *Extracts YearMedline from Medline object.*

---

### Description

Extractor for the YearMedline of a Medline object. This date corresponds to the date the article was ArticleDate.

### Usage

YearMedline(object)

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearMedline(myeloma)
```



---

YearMedline-methods    *~~ Methods for Function YearMedline in Package **RISmed** ~~*

---

### Description

*~~ Methods for function YearMedline in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

YearPmc                    *Extracts YearPmc from Medline object.*

---

### Description

Extractor for the YearPmc of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

### Usage

```
YearPmc(object)
```

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearPmc(myeloma)
```

YearPmc-methods

*~~ Methods for Function YearPmc in Package **RISmed** ~~*

---

**Description**

~~ Methods for function YearPmc in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

YearPublish

*Extracts YearPublish from Medline object.*

---

**Description**

Extractor for the YearPublish of a Medline object. This date corresponds to the date the article was published in print.

**Usage**

```
YearPublish(object)
```

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
YearPublish(myeloma)
```

---

YearPublish-methods    *~~ Methods for Function YearPublish in Package **RISmed** ~~*

---

**Description**

~~ Methods for function YearPublish in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

YearPubDate                    *Extracts YearPubDate from Medline object.*

---

**Description**

Extractor for the YearPubDate of a Medline object. This date corresponds to the date the article was PubDate.

**Usage**

YearPubDate(object)

**Arguments**

object                    instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
YearPubDate(myeloma)
```

---

YearPubDate-methods    *~~ Methods for Function YearPubDate in Package **RISmed** ~~*

---

### Description

*~~ Methods for function YearPubDate in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

YearPubmed                    *Extracts YearPubmed from Medline object.*

---

### Description

Extractor for the YearPubmed of a Medline object. This date corresponds to the date the article was made available through Pubmed Central.

### Usage

```
YearPubmed(object)
```

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearPubmed(myeloma)
```

---

YearPubmed-methods     *~~ Methods for Function YearPubmed in Package **RISmed** ~~*

---

**Description**

~~ Methods for function YearPubmed in package **RISmed** ~~

**Methods**

signature(object = "Medline")

---

YearReceived     *Extracts YearReceived from Medline object.*

---

**Description**

Extractor for the YearReceived of a Medline object. This date corresponds to the date the article was received.

**Usage**

YearReceived(object)

**Arguments**

object            instance of class Medline

**Value**

vector

**References**

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

**See Also**

[Medline](#)

**Examples**

```
data(myeloma)
YearReceived(myeloma)
```

---

YearReceived-methods    *~~ Methods for Function YearReceived in Package **RISmed** ~~*

---

### Description

*~~ Methods for function YearReceived in package **RISmed** ~~*

### Methods

signature(object = "Medline")

---

YearRevised                    *Extracts YearRevised from Medline object.*

---

### Description

Extractor for the YearRevised of a Medline object. This date corresponds to the date the article was Revised.

### Usage

YearRevised(object)

### Arguments

object                    instance of class Medline

### Value

vector

### References

<https://www.nlm.nih.gov/bsd/mms/medlineelements.html#phst>

### See Also

[Medline](#)

### Examples

```
data(myeloma)
YearRevised(myeloma)
```

---

YearRevised-methods    *~~ Methods for Function YearRevised in Package **RISmed** ~~*

---

**Description**

~~ Methods for function YearRevised in package **RISmed** ~~

**Methods**

signature(object = "Medline")

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