

PSMatching-中榮析數分析課程

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propensity score matching

- 1. 之前已上過兩堂課，主要是有關於資料併檔/篩選疾病碼，與歸人部分。
- 2. 第3堂課，期望的課程內容著重在(1)資料匯入與(2)併檔及(3)歸人部分，另外加上(4)propensity score matching作為matching (sex & age)分成2組(控制組/對照組)操作方式
- 3. 院方要求用附件四篇文章中選取一篇。

PS matching dataset

The image displays three screenshots of the PASW Statistics Data Editor interface, showing different stages of a PS matching dataset. Red boxes highlight specific data points and columns across the three windows. Arrows indicate the flow of data from the first window to the second, and then to the third.

Window 1: *未命名標題19 [m_20140803000922]

ID	treatment	x1	x2	ps	psweight
1	1.00	.0	1.00	1.00	.366
2	4.00	.0	2.00	2.00	.517
3	6.00	.0	2.00	3.00	.355
4	9.00	.0	3.00	5.00	.345
5	10.00	.0	4.00	5.00	.655
6	11.00	1.00	1.00	1.00	.366
7	12.00	1.00	2.00	2.00	.517
8	13.00	1.00	2.00	3.00	.355
9	15.00	1.00	3.00	5.00	.345
10	20.00	1.00	4.00	5.00	.655

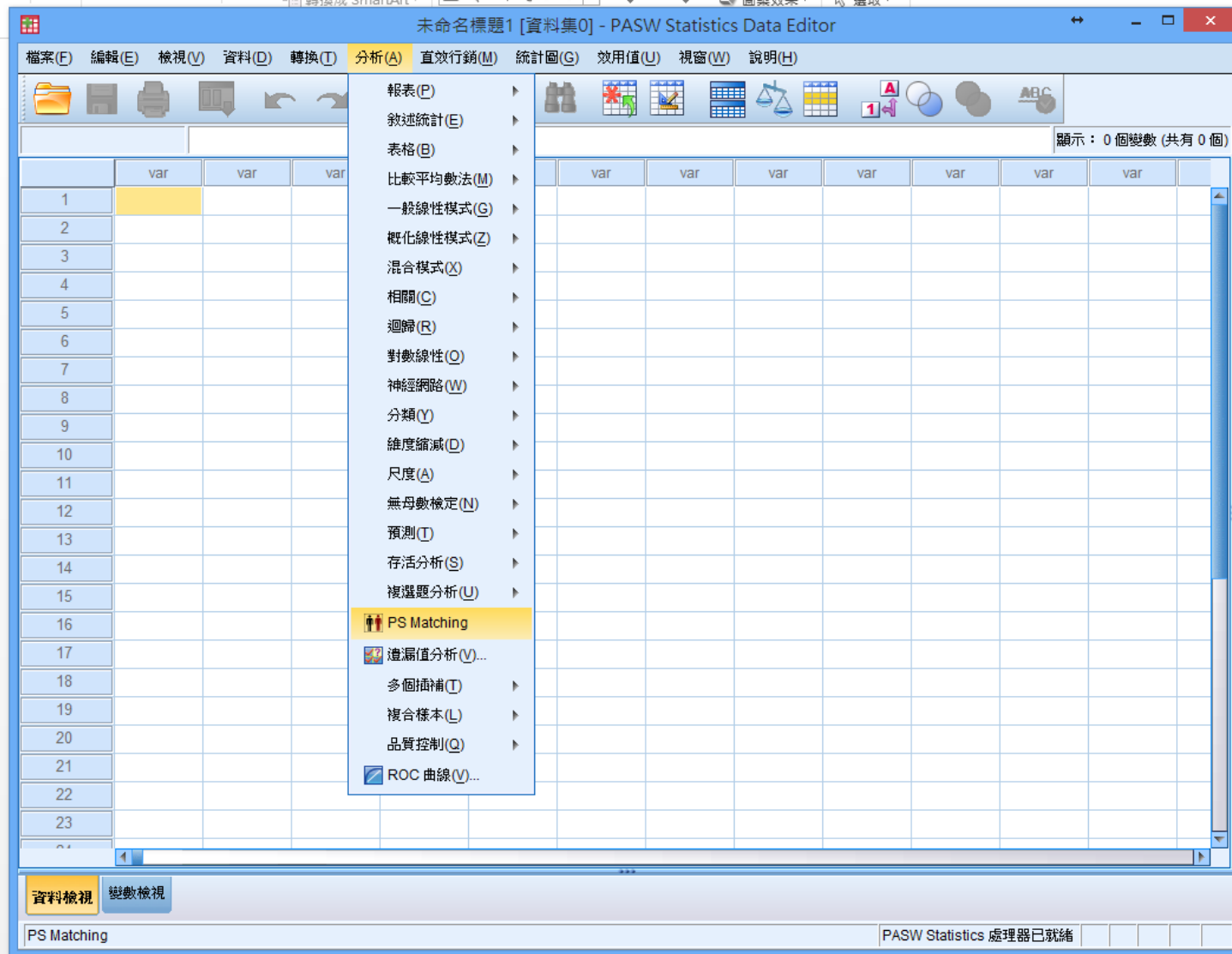
Window 2: minimaltest.sav [資料集1]

ID	treatment	x1	x2	ps	psweight
1	1.00	.0	1.00	1.00	.366
2	2.00	.0	1.00	1.00	.366
3	3.00	.0	1.00	2.00	.229
4	4.00	.0	2.00	2.00	.517
5	5.00	.0	2.00	3.00	.355
6	6.00	.0	2.00	3.00	.355
7	7.00	.0	3.00	4.00	.506
8	8.00	.0	3.00	4.00	.506
9	9.00	.0	3.00	5.00	.345
10	10.00	.0	4.00	5.00	.655
11	11.00	1.00	1.00	1.00	.366
12	12.00	1.00	2.00	2.00	.517
13	13.00	1.00	2.00	3.00	.355
14	14.00	1.00	2.00	4.00	.221
15	15.00	1.00	3.00	5.00	.345
16	16.00	1.00	3.00	1.00	.883
17	17.00	1.00	3.00	2.00	.794
18	18.00	1.00	4.00	3.00	.878
19	19.00	1.00	4.00	4.00	.787
20	20.00	1.00	4.00	5.00	.655

Window 3: *未命名標題18 [m_20140803000601]

ID	treatment	x1	x2	ps	psweight	var
1	1.00	.0	1.00	1.00	.366	1.000
2	2.00	.0	1.00	1.00	.366	1.000
3	3.00	.0	1.00	2.00	.229	1.000
4	4.00	.0	2.00	2.00	.517	1.000
5	5.00	.0	2.00	3.00	.355	1.000
6	6.00	.0	2.00	3.00	.355	1.000
7	7.00	.0	3.00	4.00	.506	1.000
8	8.00	.0	3.00	4.00	.506	1.000
9	9.00	.0	3.00	5.00	.345	1.000
10	10.00	.0	4.00	5.00	.655	1.000
11	11.00	1.00	1.00	1.00	.366	1.000
12	12.00	1.00	2.00	2.00	.517	1.000
13	13.00	1.00	2.00	3.00	.355	1.000
14	14.00	1.00	2.00	4.00	.221	1.000
15	15.00	1.00	3.00	5.00	.345	1.000
16	16.00	1.00	3.00	1.00	.883	1.000
17	17.00	1.00	3.00	2.00	.794	1.000
18	18.00	1.00	4.00	3.00	.878	1.000
19	19.00	1.00	4.00	4.00	.787	1.000
20	20.00	1.00	4.00	5.00	.655	1.000

SPSS analyze PS matching



<http://sourceforge.net/projects/psmspss/files/minimaltest.sav/download>

The screenshot displays the SPSS Statistics Data Editor window with the dataset 'minimaltest.sav' open. The dataset contains 20 rows of data with the following columns: ID, treatment, x1, and x2. The data is as follows:

ID	treatment	x1	x2
1	1.00	0.00	1.00
2	2.00	0.00	1.00
3	3.00	0.00	2.00
4	4.00	0.00	2.00
5	5.00	0.00	3.00
6	6.00	0.00	3.00
7	7.00	0.00	4.00
8	8.00	0.00	4.00
9	9.00	0.00	5.00
10	10.00	0.00	5.00
11	11.00	1.00	1.00
12	12.00	1.00	2.00
13	13.00	1.00	3.00
14	14.00	1.00	4.00
15	15.00	1.00	5.00
16	16.00	1.00	1.00
17	17.00	1.00	2.00
18	18.00	1.00	3.00
19	19.00	1.00	4.00
20	20.00	1.00	5.00

The 'Propensity Score Matching' dialog box is open, showing the following settings:

- Variables: (Empty)
- Variables cannot have missing values: (Checked)
- ID Variable: ID
- Binary treatment indicator (0=control, 1=treatment): treatment
- Covariates: x1, x2
- Estimation Algorithm: Logistic regression
- Matching Algorithm: Nearest Neighbor
- Discard Units Outside of Common Support: None
- Caliper Definition: No Caliper
- Match One to Many: Match 1:1
- Matching with Replacement: False

The dialog box also includes buttons for 'Plots...', 'About...', and 'Output...'.

Discard Both

*未命名標題3 [a_20140925023007] - PASW

檔案(F) 編輯(E) 檢視(V) 資料(D) 轉換(T) 分析(A) 直效行銷(M) 統計圖(G) 效用值(U) 視窗

1: ID 1.00

	ID	treatment	x1	x2	ps	psweight
1	1.00	.0	1.00	1.00	.366	1.000
2	2.00	.0	1.00	1.00	.366	.0
3	3.00	.0	1.00	2.00	.229	.0
4	4.00	.0	2.00	2.00	.517	1.000
5	5.00	.0	2.00	3.00	.355	.0
6	6.00	.0	2.00	3.00	.355	1.000
7	7.00	.0	3.00	4.00	.506	.0
8	8.00	.0	3.00	4.00	.506	.0
9	9.00	.0	3.00	5.00	.345	1.000
10	10.00	.0	4.00	5.00	.655	1.000
11	11.00	1.00	1.00	1.00	.366	1.000
12	12.00	1.00	2.00	2.00	.517	1.000
13	13.00	1.00	2.00	3.00	.355	1.000
14	14.00	1.00	2.00	4.00	.221	.0
15	15.00	1.00	3.00	5.00	.345	1.000
16	16.00	1.00	3.00	1.00	.883	.0
17	17.00	1.00	3.00	2.00	.794	.0
18	18.00	1.00	4.00	3.00	.878	.0
19	19.00	1.00	4.00	4.00	.787	.0
20	20.00	1.00	4.00	5.00	.655	1.000

資料檢視 變數檢視

Propensity Score Matching

Variables:

- Propensity Score [ps]
- Weight for PS [psweight]
- psweight = 1 (FILTER) [filter_\$]

This dialog requires the R Plug-In.

Estimation Algorithm:
Logistic regression

Matching Algorithm:
Nearest Neighbor

Discard Units Outside of Common Support:
Both

Caliper Definition:
☒ No Caliper
☐ Caliper .2

Match One to Many:
☒ Match 1:1
☐ Match 1:many 2

Variables cannot have missing values

D Variable
ID

Binary treatment indicator
0=control, 1=treatment
treatment

Covariates
x1
x2

Additional Covariates

Matching with Replacement
☐ True
☒ False

Plots...
About...
Output...

確定 貼上之後(P) 重設(R) 取消

Balance test

```
PSMATCHING3
/VARS
  ID = ID
  TREAT = treatment
  COVS = x1 x2
/MATCHIT
  MATCH=NEAREST
  EST =LOGIT
  RATIO = 1
  CALIPER = 0
  DISCARD = BOTH
  INTERACTION
/OUTPUT ALL.
```

Propensity Score Matching

[資料集1] \\10.32.1.17\uploads\4317研究室\CHU\SPSS PS\minim

Overall balance test (Hansen & Bowers, 2010)

	chisquare	df	p.value
Overall	.000	2.000	1.000

Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	Before matching	After matching
Multivariate imbalance measure L1	.500	.000

Summary of unbalanced covariates (|d| > .25)

No covariate exhibits a large imbalance (|d| > .25).

```
DATASET ACTIVATE a_20140925023007.
USE ALL.
COMPUTE filter_$=(psweight = 1).
VARIABLE LABEL filter_$ 'psweight = 1 (FILTER)'.
VALUE LABELS filter_$ 0 'Not Selected' 1 'Selected'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE.
```

Overall balance test (Hansen & Bowers, 2010)

	chisquare	df	p.value
Overall	.000	2.000	1.000

Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	Before matching	After matching
Multivariate imbalance measure L1	.500	.000

Summary of unbalanced covariates (|d| > .25)

No covariate exhibits a large imbalance (|d| > .25).

Discard None

The screenshot displays the PASW Statistics interface. On the left, a data table is visible with columns: ID, treatment, x1, x2, ps, and psweight. The data is as follows:

	ID	treatment	x1	x2	ps	psweight
1	1.00	.0	1.00	1.00	.366	1.000
2	2.00	.0	1.00	1.00	.366	1.000
3	3.00	.0	1.00	2.00	.229	1.000
4	4.00	.0	2.00	2.00	.517	1.000
5	5.00	.0	2.00	3.00	.355	1.000
6	6.00	.0	2.00	3.00	.355	1.000
7	7.00	.0	3.00	4.00	.506	1.000
8	8.00	.0	3.00	4.00	.506	1.000
9	9.00	.0	3.00	5.00	.345	1.000
10	10.00	.0	4.00	5.00	.655	1.000
11	11.00	1.00	1.00	1.00	.366	1.000
12	12.00	1.00	2.00	2.00	.517	1.000
13	13.00	1.00	2.00	3.00	.355	1.000
14	14.00	1.00	2.00	4.00	.221	1.000
15	15.00	1.00	3.00	5.00	.345	1.000
16	16.00	1.00	3.00	1.00	.883	1.000
17	17.00	1.00	3.00	2.00	.794	1.000
18	18.00	1.00	4.00	3.00	.878	1.000
19	19.00	1.00	4.00	4.00	.787	1.000
20	20.00	1.00	4.00	5.00	.655	1.000

On the right, the 'Propensity Score Matching' dialog box is open. The 'Variables' list contains 'Propensity Score [ps]' and 'Weight for PS [psweight]'. The 'ID Variable' is 'ID'. The 'Binary treatment indicator' is 'treatment'. The 'Covariates' are 'x1' and 'x2'. The 'Discard Units Outside of Common Support' is set to 'None'. The 'Caliper Definition' is 'No Caliper'. The 'Match One to Many' is 'Match 1:1'. The 'Matching with Replacement' is 'False'. The 'Additional Covariates' section is empty. The 'Plots...', 'About...', and 'Output...' buttons are on the right. The '確定', '貼上之後(P)', '重設(R)', and '取消' buttons are at the bottom.

Script & balance test

PSMATCHING3

/VARS

ID = ID

TREAT = treatment

COVS = x1 x2

/MATCHIT

MATCH=NEAREST

EST =LOGIT

RATIO = 1

CALIPER = 0

DISCARD = NONE

INTERACTION

/OUTPUT ALL.

Propensity Score Matching

[資料集1] \\10.32.1.17\uploads\4317

Overall balance test (Hansen & Bowers, 2010)

	chisquare	df	p.value
Overall	3.109	2.000	.211

Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	Before matching
Multivariate imbalance measure L1	.500

Summary of unbalanced covariates (|d| > .25)

	Means Treated
propensityxpropensity	.392
propensityxx1	1.790
propensity	.580
x1	2.800
x1xx1	8.800
propensityxx2	1.660

Loading required package: nlme

Loading required package: lattice

Loading required package: randomForest

Overall balance test (Hansen & Bowers, 2010)

	chisquare	df	p.value
Overall	3.109	2.000	.211

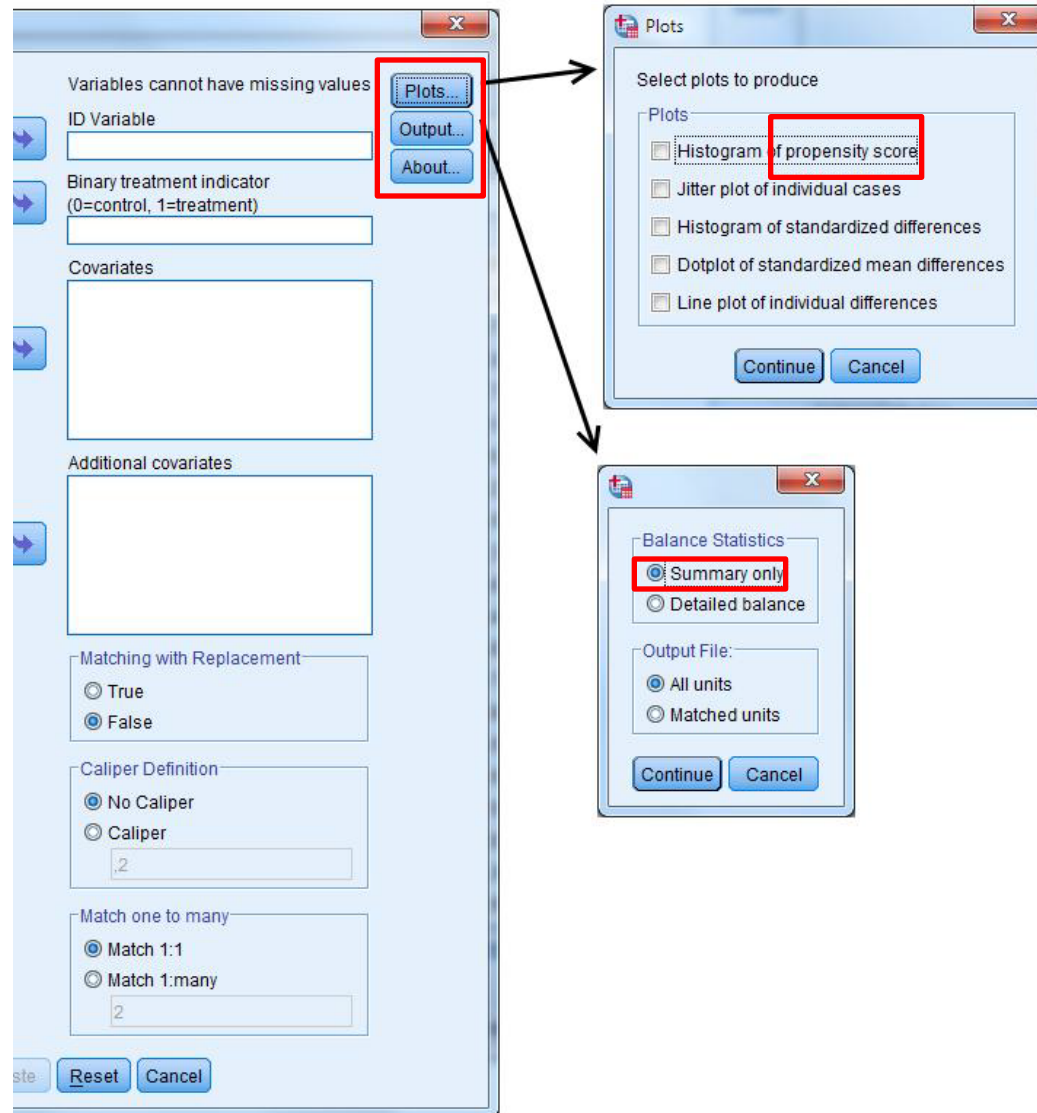
Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	Before matching	After matching
Multivariate imbalance measure L1	.500	.500

Summary of unbalanced covariates (|d| > .25)

	Means Treated	Means Control	SD Control	Std. Mean Diff.
propensityxpropensity	.392	.190	.111	.702
propensityxx1	1.790	1.010	.725	.655
propensity	.580	.420	.123	.642
x1	2.800	2.200	1.033	.581
x1xx1	8.800	5.800	4.872	.533
propensityxx2	1.660	1.340	.928	.313

Balance statistics



外掛 PSMatching

- R 2.8.1 =>R-2.8.1-win32.exe <http://cran.r-project.org/bin/windows/base/old/2.8.1/>
- R Eseentials plug-in for SPSS 18
=>PASWStatistics_RPlugIn_1802_win32.exe
http://sourceforge.net/projects/ibmspssstat/files/Versions%20for%20Statistics%2018/PASWStatistics_RPlugIn_1802_win32.exe/download
- PSMatching extensions in SPSS 18
=>psmatching3.spe
<http://sourceforge.net/projects/psmspss/files/>

PS matching .pse

<http://sourceforge.net/projects/psmspss/files/>

The screenshot shows the SourceForge project page for 'PS Matching in SPSS'. The page header includes the SourceForge logo, a search bar, and navigation links like 'Browse', 'Enterprise', 'Blog', 'Help', and 'Jobs'. Below the header, there's a banner for 'E-ICEBLUE' and a breadcrumb trail: 'Home / Browse / Science & Engineering / Test and Measurement / PS Matching in SPSS / Files'. The main heading is 'PS Matching in SPSS' with a 'Beta' tag. Below it, it says 'Propensity score matching in SPSS' and 'Brought to you by: felixthoemmes'. A navigation bar shows 'Summary', 'Files', 'Reviews', 'Support', 'Home', 'Code', and 'Discussion'. A link for 'Download PSMATCHING3.03.spe (107.6 kB)' is present. The 'Files' section is a table with columns: Name, Modified, Size, and Downloads / Week. The 'readme.txt' file is highlighted with a red box. Below the table, a message states 'readme.txt cannot be displayed here, do you want to download it?'.

sourceforge

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PS Matching in SPSS Beta

Propensity score matching in SPSS

Brought to you by: felixthoemmes

Summary Files Reviews Support Home Code Discussion

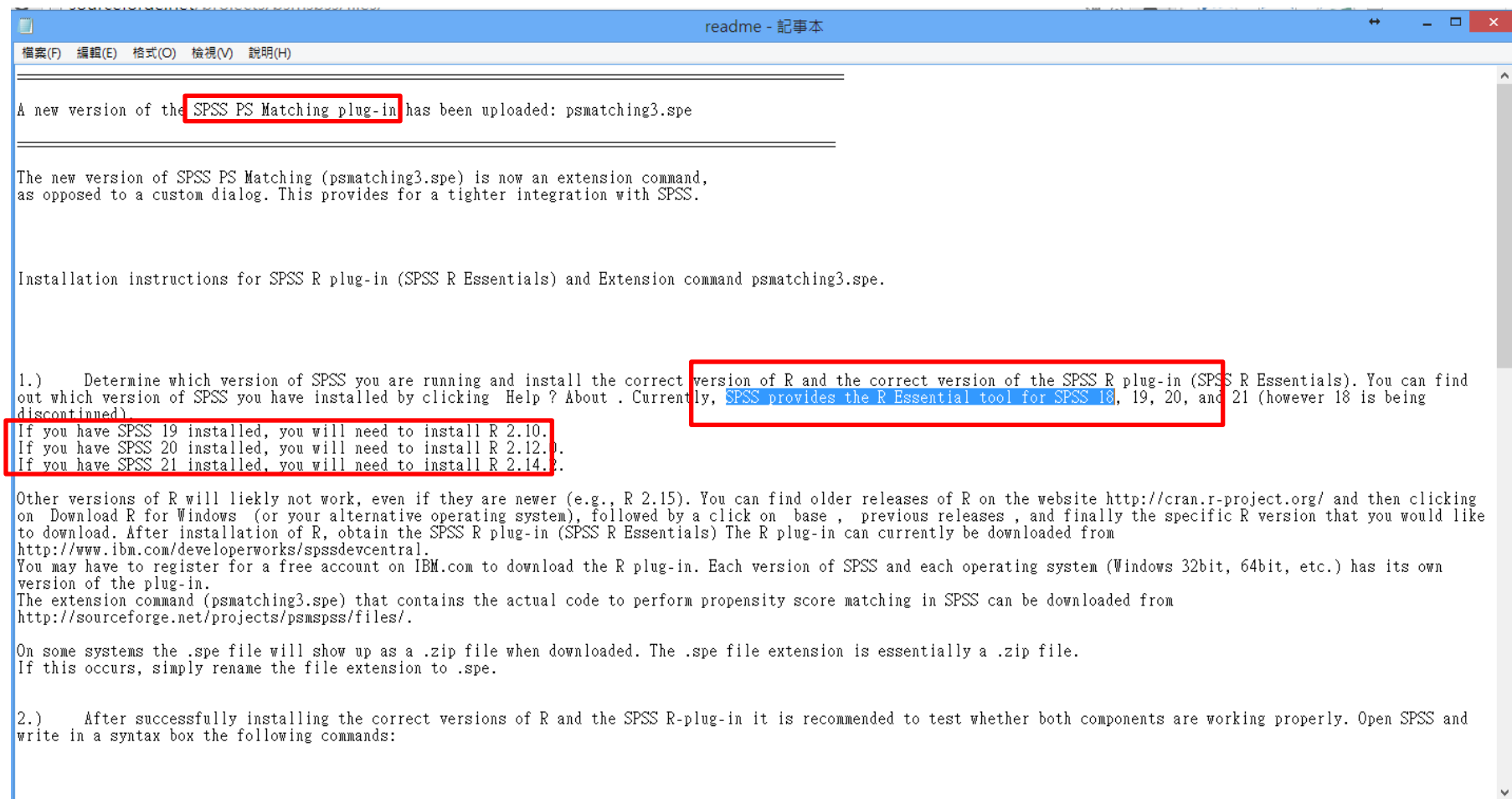
Looking for the latest version? [Download PSMATCHING3.03.spe \(107.6 kB\)](#)

Home

Name	Modified	Size	Downloads / Week
psmatching3.03	2014-01-29		
psmatching3.0	2013-05-30		
psmatching2	2013-05-30		
psmatching1	2013-05-30		
readme.txt	2013-03-19	3.9 kB	11
psmatching3.spe	2013-01-29	37.0 kB	1
minimaltest.sav	2013-01-24	742 Bytes	16
arxiv preprint.pdf	2012-03-20	557.2 kB	4
Totals: 8 Items		598.9 kB	32

readme.txt cannot be displayed here, do you want to download it?

PS Matching plug-in for SPSS 18+



```
readme - 記事本
檔案(F) 編輯(E) 格式(O) 檢視(V) 說明(H)

A new version of the SPSS PS Matching plug-in has been uploaded: psmatching3.spe

The new version of SPSS PS Matching (psmatching3.spe) is now an extension command,
as opposed to a custom dialog. This provides for a tighter integration with SPSS.

Installation instructions for SPSS R plug-in (SPSS R Essentials) and Extension command psmatching3.spe.

1.) Determine which version of SPSS you are running and install the correct version of R and the correct version of the SPSS R plug-in (SPSS R Essentials). You can find
out which version of SPSS you have installed by clicking Help ? About . Currently, SPSS provides the R Essential tool for SPSS 18, 19, 20, and 21 (however 18 is being
discontinued).
If you have SPSS 19 installed, you will need to install R 2.10.
If you have SPSS 20 installed, you will need to install R 2.12.
If you have SPSS 21 installed, you will need to install R 2.14.

Other versions of R will likely not work, even if they are newer (e.g., R 2.15). You can find older releases of R on the website http://cran.r-project.org/ and then clicking
on Download R for Windows (or your alternative operating system), followed by a click on base , previous releases , and finally the specific R version that you would like
to download. After installation of R, obtain the SPSS R plug-in (SPSS R Essentials) The R plug-in can currently be downloaded from
http://www.ibm.com/developerworks/spssdevcentral.
You may have to register for a free account on IBM.com to download the R plug-in. Each version of SPSS and each operating system (Windows 32bit, 64bit, etc.) has its own
version of the plug-in.
The extension command (psmatching3.spe) that contains the actual code to perform propensity score matching in SPSS can be downloaded from
http://sourceforge.net/projects/psmsps/files/.

On some systems the .spe file will show up as a .zip file when downloaded. The .spe file extension is essentially a .zip file.
If this occurs, simply rename the file extension to .spe.

2.) After successfully installing the correct versions of R and the SPSS R-plug-in it is recommended to test whether both components are working properly. Open SPSS and
write in a syntax box the following commands:
```

SPSS + R

https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/We70df3195ec8_4f95_9773_42e448fa9029/page/Downloads+for+IBM%C2%AE+SPSS%C2%AE+Statistics

Wikis

This Wiki

Search

SPSS

Log in to participate

SPSS



Overview

Recent Updates

Members

Wiki

Blog

Bookmarks

Files

Activities

Older News

Frequently Asked Questions about using Programmability with IBM SPSS Statistics

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Downloads for IBM® SPSS® Statistics

Updated November 26, 2013 by JonPeck | Tags: [downloads](#), [programmability](#), [spss](#), [statistics](#)

Page Actions

Objects available for downloading from this site are organized into Collections, which are listed here. Follow a link below to access a collection. Some items may be in more than one collection.

Essentials and Plugins

Programmability requires one or more of the [Python®](#), [R](#), and [.NET](#) plugins. Plugins are specific to the *Statistics* version and the operating system. Essentials include a plugin, some useful modules, and some extension commands. Detailed documentation is installed along with the plug-ins, but you can get the pdf versions for R and Python separately [here](#) for Version 20 and [here](#) for Version 21.

Python and .NET Essentials

- The **Python Essentials for Statistics version 22** are fully integrated with the main Statistics installation. They are no longer a separate item. You can install additional extension commands or update ones already installed from the Utilities menu within Statistics.
- The **.NET plugin for version 22** (Windows only) remains a separate download from the site where you download Statistics. It is also included on the physical media.
- The Essentials and Plugins for IBM SPSS Statistics **Version 21** for **Python** and **.NET** are included with the installation media or download or via FixCentral. They are not provided on this site. There is no update to these for Statistics FixPack2. However, but there may be newer versions of some extension commands available in the Extension Commands collection on this site.
- The Essentials and Plugins for IBM SPSS Statistics **Version 20** for **Python** and **.NET** are available [here](#). They have been updated to version 20.0.0.2 but are compatible with 20.0.0.0. *NOTE: if you have the 20.0.0.0 or 20.0.0.1 version of the Essentials installed, you must uninstall it before installing this update.*
- The Essentials and Plugins for IBM SPSS Statistics **Version 19** for **Python** and **.NET** are available [here](#). They are compatible with Statistics 19.0.0, 19.0.0.1, and 19.0.0.2.
- The Essentials and Plugins for PASW Statistics **Version 18** for **Python** and **.NET** are available [here](#). They are compatible with Statistics 18.0.2 and 18.0.3.

R Essentials

- The Essentials and Plugins that enable using **R** within Statistics are available at the following links. Download the version for your platform and the installation instructions. *Be sure to read the installation instructions.* You must download and install the appropriate R version from the [R CRAN site](#) before installing the Essentials. The R version varies by platform and Statistics release. You can have multiple versions of R installed if needed.
- The **Essentials for R for Statistics versions 22, 21, 20, and 19** are available [here](#).
- There is no update to the plug-in for Statistics version 21 FixPack2, but there may be newer versions of some extension commands available in the Extension Commands collection on this site.
- NOTE: if you have the 20.0.0 version of the Essentials installed and want to upgrade it to the 20.0.0.1 version, you must install the older Essentials first.*
- This link will take you to the SourceForge site where the Version 18 Essentials and Plugins are hosted.
 - [Plugins for Version 18 for R](#)

Extensions, Tools, and Utilities

Tips: if you sort the items on these linked pages by name, items in lower case appear after all the items in upper case (or before if descending order). You can search within a Collection using the *Search* field. Don't use the *Search developerWorks* field on the top line.

SPSS + R + Python

<http://sourceforge.net/projects/ibmspssstat/files/Versions%20for%20Statistics%2018/>

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IBM SPSS Statistics Essentials for R

Brought to you by: jlapack

Summary | **Files** | Reviews | Support | Wiki | Mailing Lists

Looking for the latest version? [Download PASWStatistics_RPlugIn_1802_win32.exe \(10.8 MB\)](#)

Home / Versions for Statistics 18

Name	Modified	Size	Downloads / Week
Parent folder			
PASWStatisticsRPlugInSolaris64_1...	2011-04-06	1.2 MB	3
PASWStatisticsRPlugInLinux64_18...	2011-04-06	1.2 MB	2
PASWStatisticsRPlugInHpx64_18...	2011-04-06	1.3 MB	3
PASWStatisticsRPlugInAIX64_1802...	2011-04-06	1.2 MB	2
README18.txt	2011-04-05	962 Bytes	10
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PASWStatistics_RPlugIn_1802_win...	2011-04-05	10.8 MB	41
PASWStatisticsRPlugInCode_1802....	2011-04-05	385.7 kB	2
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R Essentials for PASW Statistics 18 also known as IBM SPSS Statistics

This folder contains the R Essentials materials for working with R in Statistics 18.

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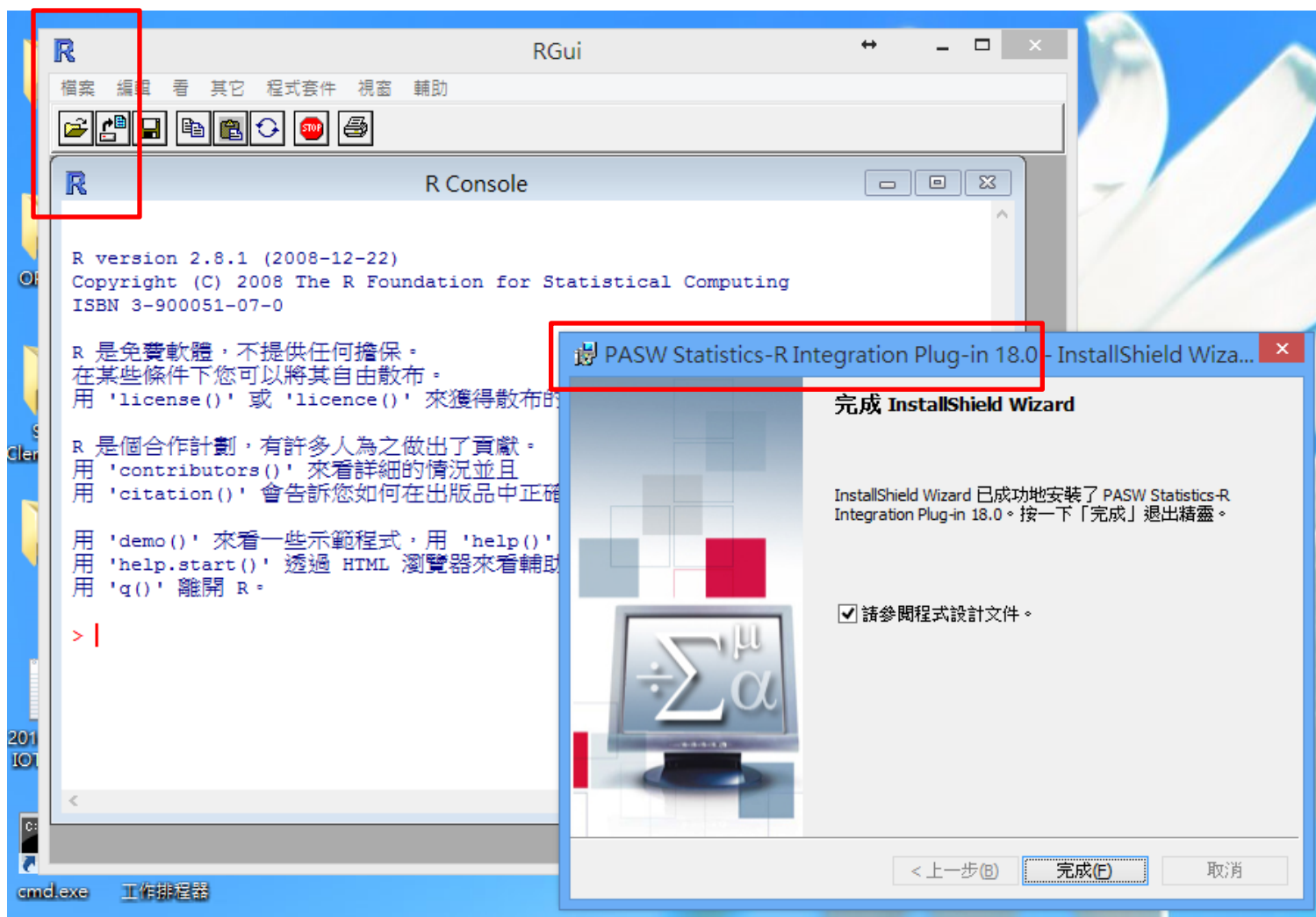
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<http://cran.r-project.org/bin/windows/base/old/2.8.1/>

SPSS R Plugin

http://sourceforge.net/projects/ibmsspssstat/files/Versions%20for%20Statistics%2018/PASWStatistics_RPlugIn_1802_win32.exe/download



SPSS R plug-in works

The image shows a screenshot of the SPSS Statistics Syntax Editor and Output Viewer windows. The Syntax Editor window, titled "*語法1 - PASW Statistics Syntax Editor", contains the following code:

```
BEGIN PROGRAM R.  
x <- "R plug-in is working properly"  
x  
END PROGRAM.
```

The Output Viewer window, titled "*輸出1 [文件1] - PASW Statistics Viewer", shows the execution results:

```
BEGIN PROGRAM R.  
x <- "R plug-in is working properly"  
x  
END PROGRAM.  
[1] "R plug-in is working properly"
```

Red boxes highlight the code in the Syntax Editor and the output in the Output Viewer. A red box also highlights the menu bar of the Syntax Editor window.

3.) Open SPSS in administrator mod
Do so by right-clicking the SPSS Icon
SPSS navigate to Utilities --> Exten
Then navigate to the .spe file that yo

4.) Restart SPSS - even if it does not

5.) There should be an icon for PS Mat
For details on how to conduct a propen

Install .spe in SPSS

The image consists of two screenshots from a SPSS tutorial. The left screenshot shows the SPSS 'Utilities' menu with 'Extension Bundles' and 'Install Extension Bundle...' highlighted. The right screenshot shows the 'Open Extension Bundle' dialog box with 'PSMATCHING3.03.spe' selected.

3.) Open SPSS in administrator mode (this is especially important for Windows users).
SPSS navigate to: Utilities --> Extension bundle --> Install Extension bundle
then navigate to the .spe file that you have downloaded.

4.) Restart SPSS - even if it does not prompt you to, it is necessary to restart.

5.) There should be an icon for PS Matching under "Analyze" that you can then use.
For details on how to conduct a propensity score analysis in SPSS, please refer to the PS Matching User Guide.

未命名標題1 [資料集0] - PASW Statistics Data Editor

顯示: 0 個變數 (共有 0 個)

開啟延伸配套

搜尋(I): Downloads

PSMATCHING3.03.spe

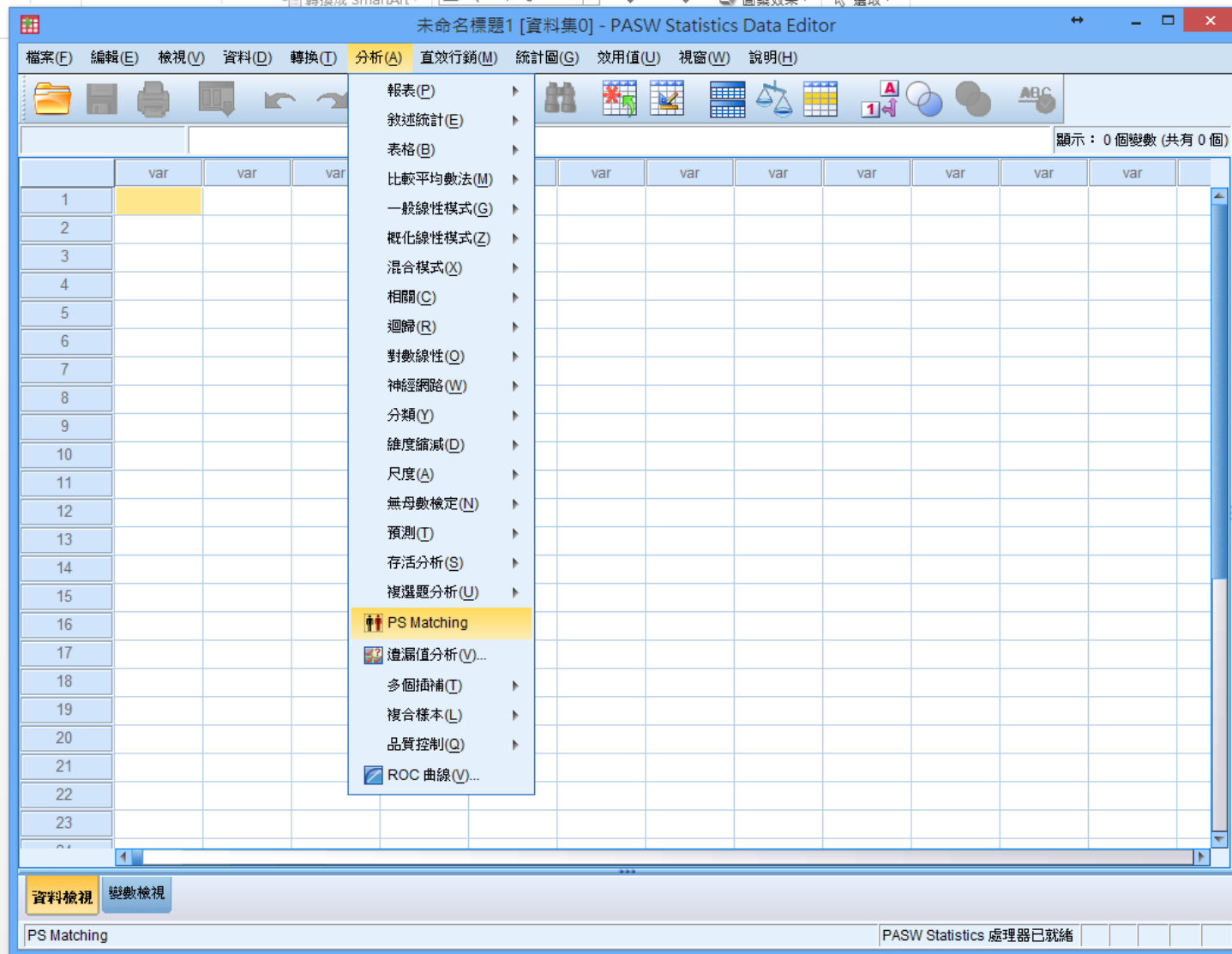
檔案名稱(N): PSMATCHING3.03.spe 開啟

檔案類型(T): 延伸配套檔案 (*.spe) 取消

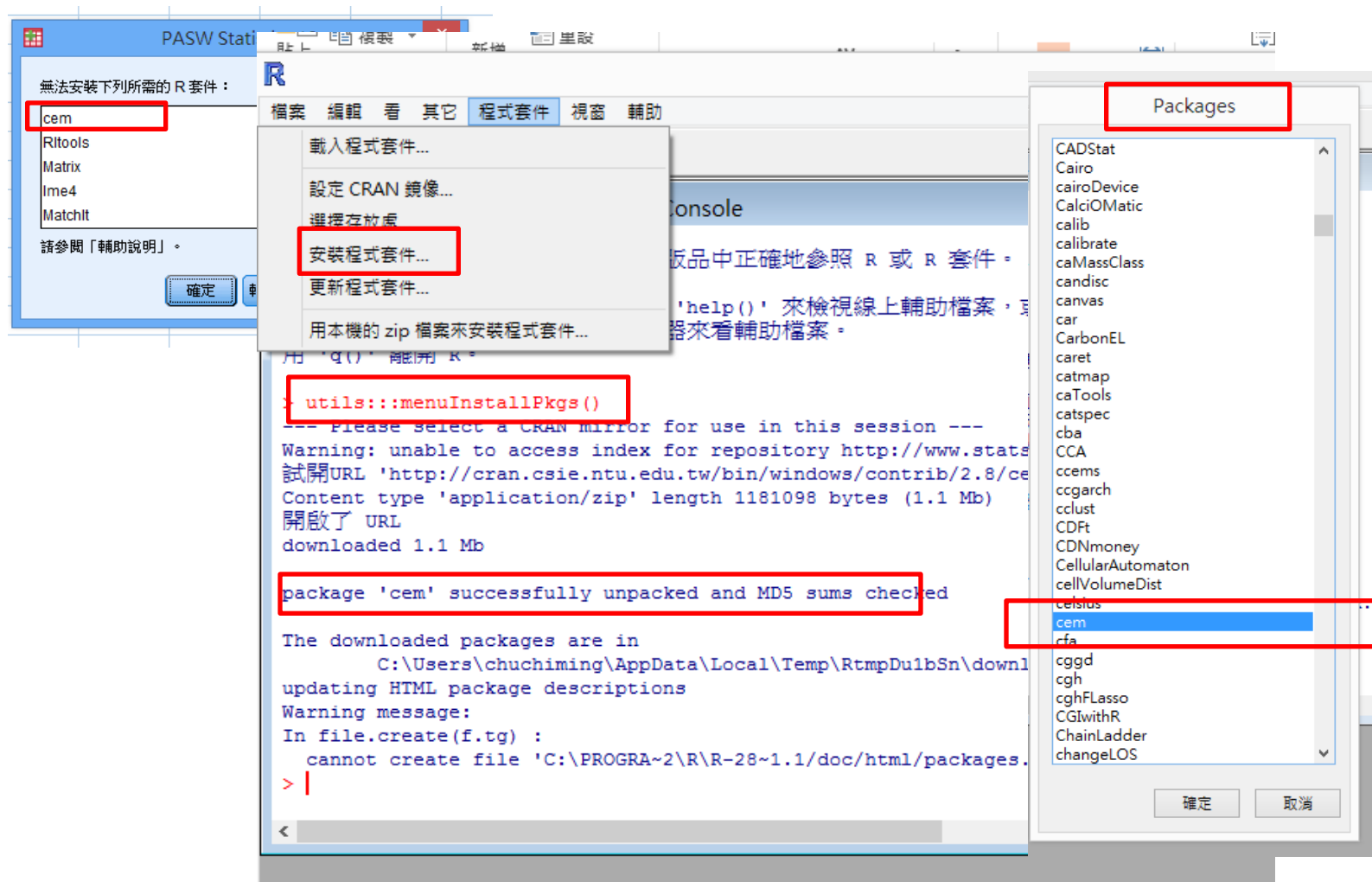
從儲存器擷取檔案(R)... 說明(H)

所選延伸配套要求的 R 套件將透過網際網路下載 (如果可能的話)。

SPSS analyze PS matching



加裝 R cem



[http://sourceforge.net/projects/psmspss/files/
arxiv%20preprint.pdf/download](http://sourceforge.net/projects/psmspss/files/arxiv%20preprint.pdf/download)

Propensity score matching in SPSS

Thoemmes, F.

University of Tübingen

Author Note

Felix Thoemmes, Center for Educational Science and Psychology, University of Tübingen, Europastr. 6, 72072 Tübingen, Germany, felix.thoemmes@gmail.com. Starting January 2012 Felix Thoemmes will be at the Department of Human Development, Cornell University, Ithaca, NY. The author would like to thank Philip Parker for valuable comments and Michael Becker for R computer code for dotplots.

Statin

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Statin use and reduced cancer-related mortality

SF Nielsen, BG Nordestgaard. - New England Journal of ..., 2012 - Mass Medical Soc
Background A reduction in the availability of cholesterol may limit the cellular proliferation required for cancer growth and metastasis. We tested the hypothesis that statin use begun before a cancer diagnosis is associated with reduced cancer-related mortality.

被引用 145 次 相關文章 全部共 14 個版本 Web of Science: 92 引用 儲存

The statins as anticancer agents

KKW Chan, AM Oza, LL Siu. Clinical Cancer Research, 2003 - AACR
... Potential applications for HMG-CoA reductase inhibitors in cancer therapeutics ... and prevent this adverse effect, therefore enabling the safe use of statins at high ... studies are needed to determine whether supplementation with ubiquinone reliably rescues statin-induced myotoxicity ...

被引用 372 次 相關文章 全部共 5 個版本 Web of Science: 275 引用 儲存

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Screening and prostate-cancer mortality in a randomized European study

FH Schröder, J Hugosson, MJ Roobol... - England Journal of ..., 2009 - Mass Medical Soc
... of various recruitment approaches, the estimate of a 20% reduction in prostate-cancer mortality does not ... with the main result: a lowering of the death rate from prostate cancer associated with ... PSA-based screening. 28,29 However, the lead time of aggressive cancers, which may ...

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Statins and cancer risk: a meta-analysis

KM Dale, CI Coleman, NN Henyan, J Kluger. - Jama, 2006 - archoph.jamanetwork.com
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被引用 441 次 相關文章 全部共 18 個版本 Web of Science: 305 引用 儲存

Reductions in all-cause, cancer, and coronary mortality in statin-treated patients with heterozygous familial hypercholesterolaemia: a prospective registry study

A Neil, J Cooper, J Betteridge, N Capps... - European heart ..., 2008 - Eur Soc Cardiology
Methods and results A total of 3382 patients (1650 men) aged <80 years were recruited from 21 lipid clinics in the United Kingdom and followed prospectively between 1980 and 2006 for 46 580 person-years. There were 370 deaths, including 190 from coronary heart disease (...

被引用 155 次 相關文章 全部共 12 個版本 Web of Science: 100 引用 儲存

Mortality and incidence of cancer during 10-year follow-up of the Scandinavian Simvastatin Survival Study (4S)

TE Strandberg, K Pyörälä, TJ Cook, L Wilhelmsen... - The Lancet, 2004 - Elsevier
... The effects of cholesterol-lowering treatment with statins on mortality and risk of cancer beyond the usual 5-6 ... Incidence of any specific type of cancer did not rise in the simvastatin group ... with survival benefit over 10 years of follow-up compared with open-label statin therapy for ...

被引用 258 次 相關文章 全部共 19 個版本 引用 儲存

Statins and cancer prevention

MF Demierre, PDR Higgins, SB Gruber, E Hawk... - Reviews Cancer, 2005 - nature.com
... Several large RCTs of single-agent statins for the prevention of CVD included secondary endpoints of overall cancer incidence ... 105, 106, 107 (Table 2). None of these RCTs found a significant difference in overall cancer incidence or mortality between the statin and placebo ...

被引用 414 次 相關文章 全部共 8 個版本 Web of Science: 301 引用 儲存

Do statins cause cancer? A meta-analysis of large randomized clinical trials

LM Bjerre, J LeLorier. - The American journal of medicine, 2001 - Elsevier
... Figure 2. Results from individual statin studies and meta-analyses. ... Thus, the cardiovascular mortality benefits gained from treatment with statins are not negated by increased ... We also considered site-specific cancer outcomes, despite incomplete reporting (Table 3). Site-specific ...

被引用 179 次 相關文章 全部共 8 個版本 Web of Science: 118 引用 儲存

[HTML] Cardiovascular and cancer mortality in very elderly post-myocardial infarction patients receiving statin treatment

K Gränsbo, O Melander, L Wallentin... - Journal of the ..., 2010 - Am Coll Cardio Found
Objectives The purpose of this study was to determine whether statin treatment is effective and safe in very elderly (80 years and older) acute myocardial infarction (AMI) patients. Background Elderly individuals constitute an increasing percentage of patients admitted to ...

被引用 39 次 相關文章 全部共 27 個版本 Web of Science: 19 引用 儲存 顯示更多服務

ORIGINAL ARTICLE

Statin Use and Reduced Cancer-Related Mortality

Sune F. Nielsen, Ph.D., Børge G. Nordestgaard, M.D., D.M.Sc.
and Stig E. Bojesen, M.D., Ph.D., D.M.Sc.

ABSTRACT

BACKGROUND

A reduction in the availability of cholesterol may limit the cellular proliferation required for cancer growth and metastasis. We tested the hypothesis that statin use begun before a cancer diagnosis is associated with reduced cancer-related mortality.

METHODS

We assessed mortality among patients from the entire Danish population who had received a diagnosis of cancer between 1995 and 2007, with follow-up until December 31, 2009. Among patients 40 years of age or older, 18,721 had used statins regularly before the cancer diagnosis and 277,204 had never used statins.

RESULTS

Multivariable-adjusted hazard ratios for statin users, as compared with patients who had never used statins, were 0.85 (95% confidence interval [CI], 0.83 to 0.87) for death from any cause and 0.85 (95% CI, 0.82 to 0.87) for death from cancer. Adjusted hazard ratios for death from any cause according to the defined daily statin dose (the assumed average maintenance dose per day) were 0.82 (95% CI, 0.81 to 0.85) for a dose of 0.01 to 0.75 defined daily dose per day, 0.87 (95% CI, 0.83 to 0.89) for 0.76 to 1.50 defined daily dose per day, and 0.87 (95% CI, 0.81 to 0.91) for higher than 1.50 defined daily dose per day; the corresponding hazard ratios for death from cancer were 0.83 (95% CI, 0.81 to 0.86), 0.87 (95% CI, 0.83 to 0.91), and 0.87 (95% CI, 0.81 to 0.92). The reduced cancer-related mortality among statin users as compared with those who had never used statins was observed for each of 13 cancer types.

CONCLUSIONS

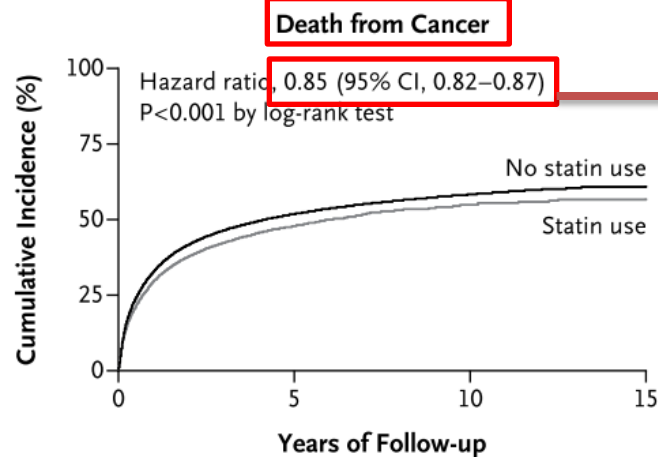
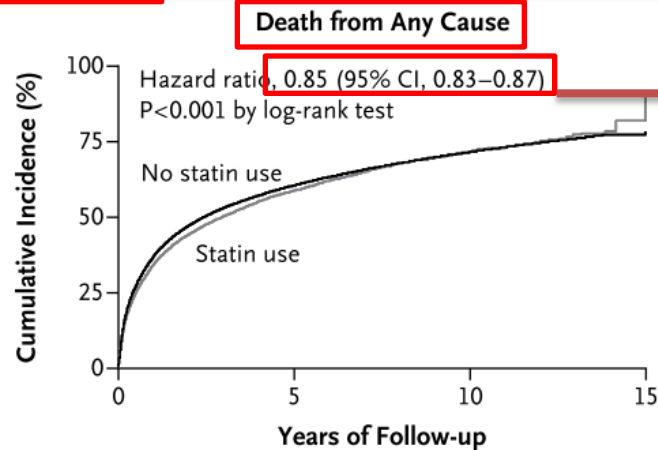
Statin use in patients with cancer is associated with reduced cancer-related mortality. This suggests a need for trials of statins in patients with cancer.

Table 1. Baseline Characteristics of the Patients, According to Statin Use, in the Nationwide and Matched Studies.*

Characteristic	Nationwide Study			Nested 1:3 Matched Study		
	Statin Use (N = 18,721)	No Statin Use (N = 277,204)	P Value	Statin Use (N = 15,247)	No Statin Use (N = 45,741)	P Value
Age — yr			<0.001			1.00
Median	70	69		69	69	
Interquartile range	63–76	59–77		63–76	63–76	
Sex — no. (%)			<0.001			1.00
Female	8,077 (43)	148,881 (54)		6,726 (44)	20,178 (44)	
Male	10,644 (57)	128,323 (46)		8,521 (56)	25,563 (56)	
Tumor size — no. (%)†			<0.001			0.02
Small	6,032 (32)	36,509 (13)		4,842 (32)	13,629 (30)	
Large	6,416 (34)	38,052 (14)		4,935 (32)	15,677 (34)	
Missing data	6,273 (34)	202,643 (73)		5,470 (36)	16,435 (36)	
Cancer spread to lymphatic system — no. (%)†			<0.001			0.14
None	4,503 (24)	27,899 (10)		3,604 (24)	10,277 (22)	
Any	7,945 (42)	46,662 (17)		6,173 (40)	19,029 (42)	
Missing data	6,273 (34)	202,643 (73)		5,470 (36)	16,435 (36)	
Distant metastasis — no. (%)†			<0.001			0.26
None	6,798 (36)	42,575 (15)		5,471 (36)	16,002 (35)	
Any	5,620 (30)	31,986 (12)		4,306 (28)	13,304 (29)	
Missing data	6,303 (34)	202,643 (73)		5,470 (36)	16,435 (36)	
Chemotherapy — no. (%)‡			<0.001			1.00
None	4,557 (24)	170,665 (62)		4,224 (28)	12,511 (27)	
Any	669 (4)	25,034 (9)		623 (4)	2,062 (5)	
Missing data	13,495 (72)	81,505 (29)		10,400 (68)	31,168 (68)	

Cox regression by log-rank test

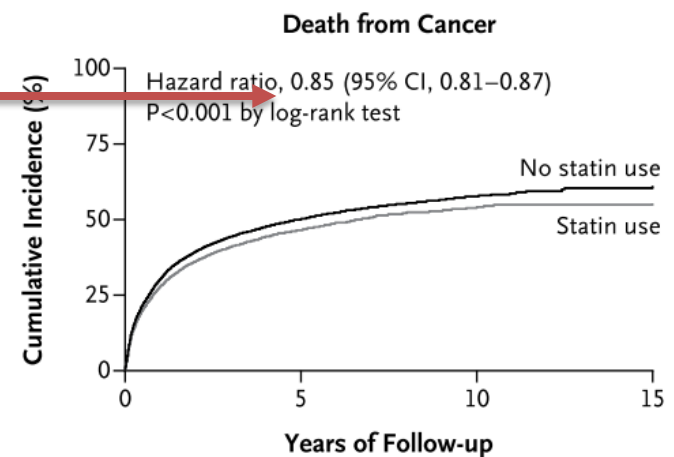
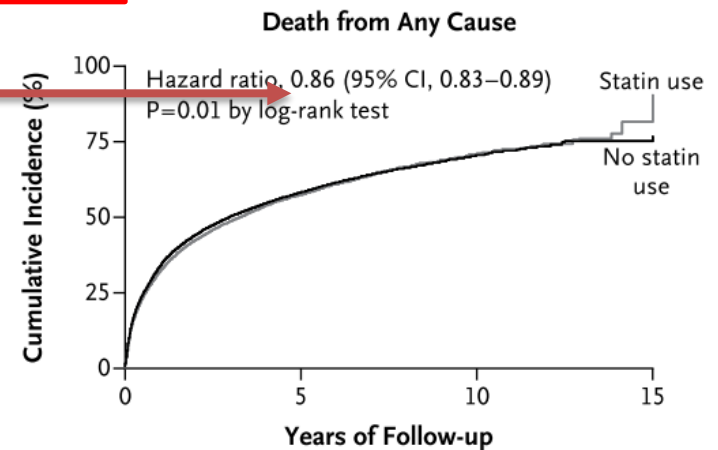
A Nationwide Study



**No. of Patients
at Risk**

Statin use	18,721	3,005	365	0
No statin use	227,204	82,137	27,954	378

B Matched Study

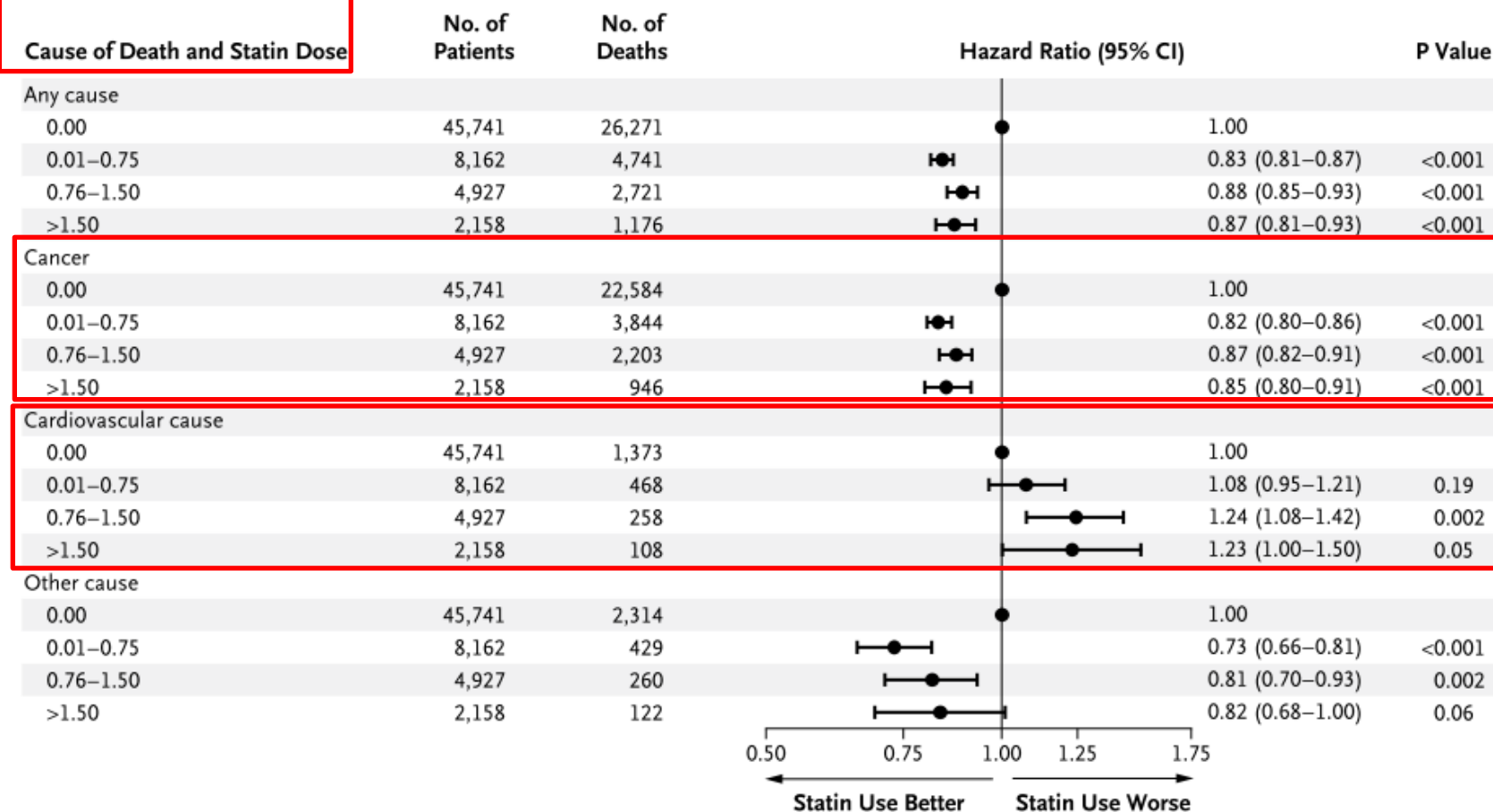


**No. of Patients
at Risk**

Statin use	15,247	2,779	349	0
No statin use	45,741	8,060	976	4

Dosage effect

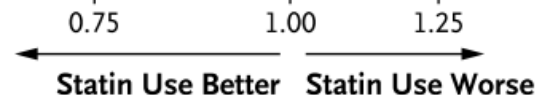
B Matched Study



適應症

B Cancer-Related Mortality in Matched Study

Subgroup	No. of Patients	No. of Deaths	Hazard Ratio (95% CI)	P Value
Regular statin use	60,988	29,577	0.85 (0.81–0.87)	<0.001
Sex				
Female	25,904	12,203	0.87 (0.83–0.92)	<0.001
Male	34,084	17,374	0.82 (0.80–0.86)	<0.001
Age at diagnosis				
40–69 yr	29,188	12,871	0.86 (0.81–0.89)	<0.001
>69 yr	31,800	16,706	0.83 (0.80–0.87)	<0.001
Chemotherapy				
No	16,735	9,280	0.79 (0.75–0.83)	<0.001
Yes	2,685	1,990	0.99 (0.87–1.12)	0.91
Radiotherapy				
No	16,751	9,633	0.81 (0.77–0.86)	<0.001
Yes	2,669	1,637	0.82 (0.73–0.93)	<0.001
Tumor size				
Small	18,471	4,825	0.81 (0.75–0.87)	<0.001
Large	20,612	12,447	0.87 (0.83–0.92)	<0.001
Metastasis				
No	12,118	2,383	0.86 (0.77–0.94)	0.003
Yes	26,965	14,889	0.86 (0.81–0.88)	<0.001
Cardiovascular disease before cancer				
No	37,956	17,977	0.81 (0.77–0.86)	<0.001
Yes	23,032	11,600	0.87 (0.83–0.89)	<0.001
Diabetes mellitus before cancer				
No	56,383	27,208	0.85 (0.81–0.87)	<0.001
Yes	4,605	2,369	0.81 (0.75–0.88)	<0.001
Calendar period				
1995–2002	9,956	3,932	0.80 (0.73–0.86)	<0.001
2003–2007	51,032	23,515	0.86 (0.82–0.88)	<0.001
Any statin use	75,988	36,966	0.86 (0.83–0.87)	<0.001



敬請指教



朱
基
銘

Chu,

Chi-Ming

國防醫學院公共衛生學系及研究所 National Defense Medical Center

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Dr.sc.hum., Med. Informatics & Biostatistics of Universität Heidelberg

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