PSMatching-中榮析數分析課程

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

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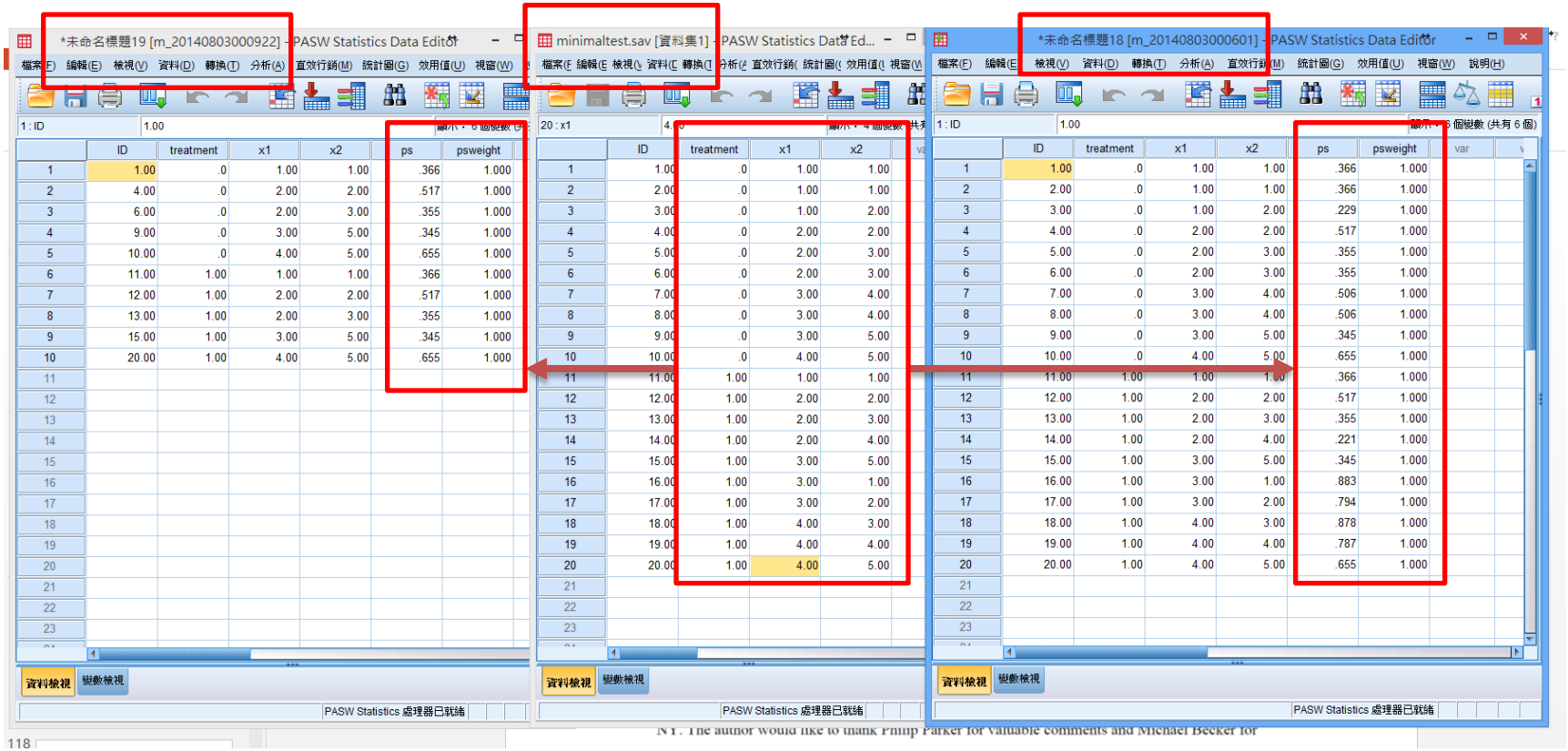
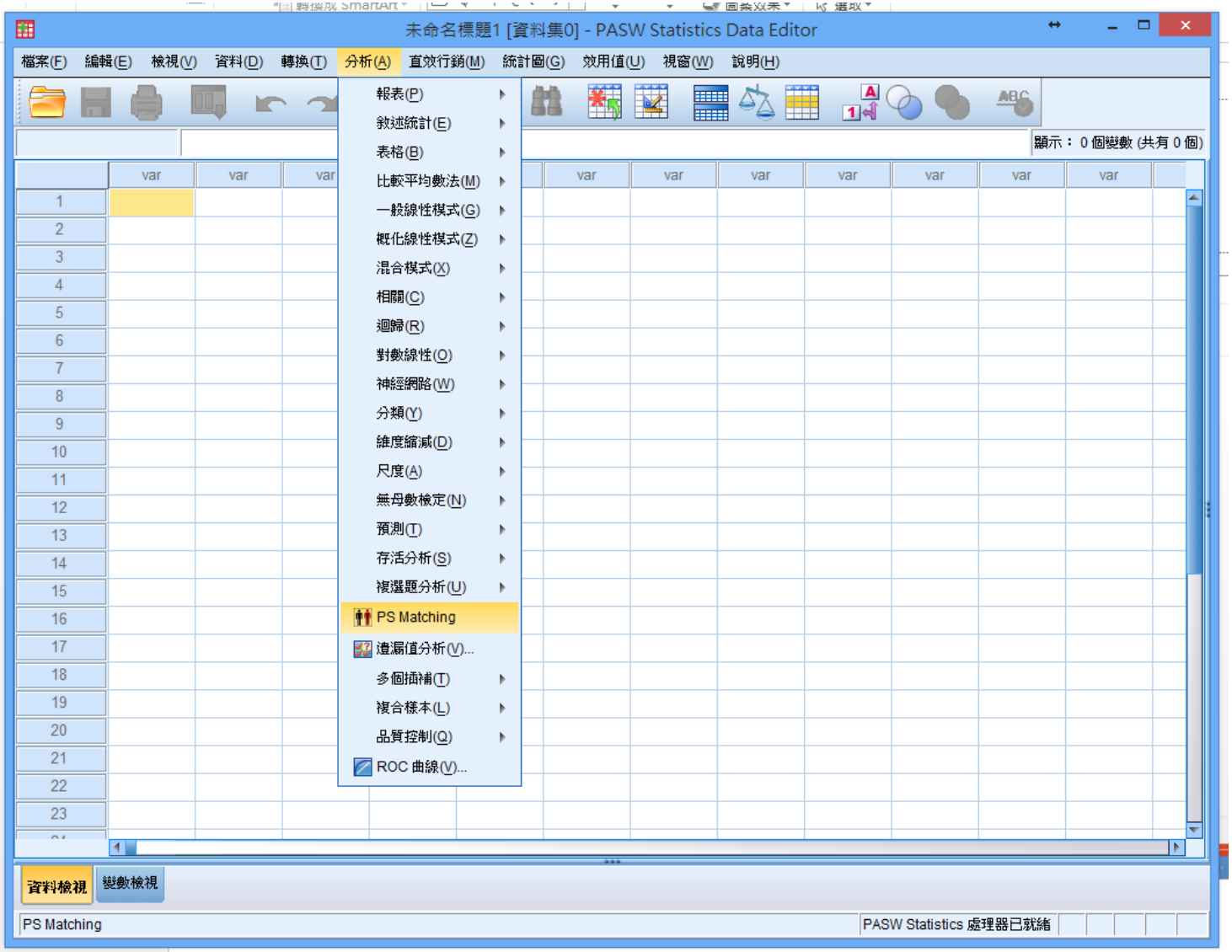
propensity score matching

- 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** 作爲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**。

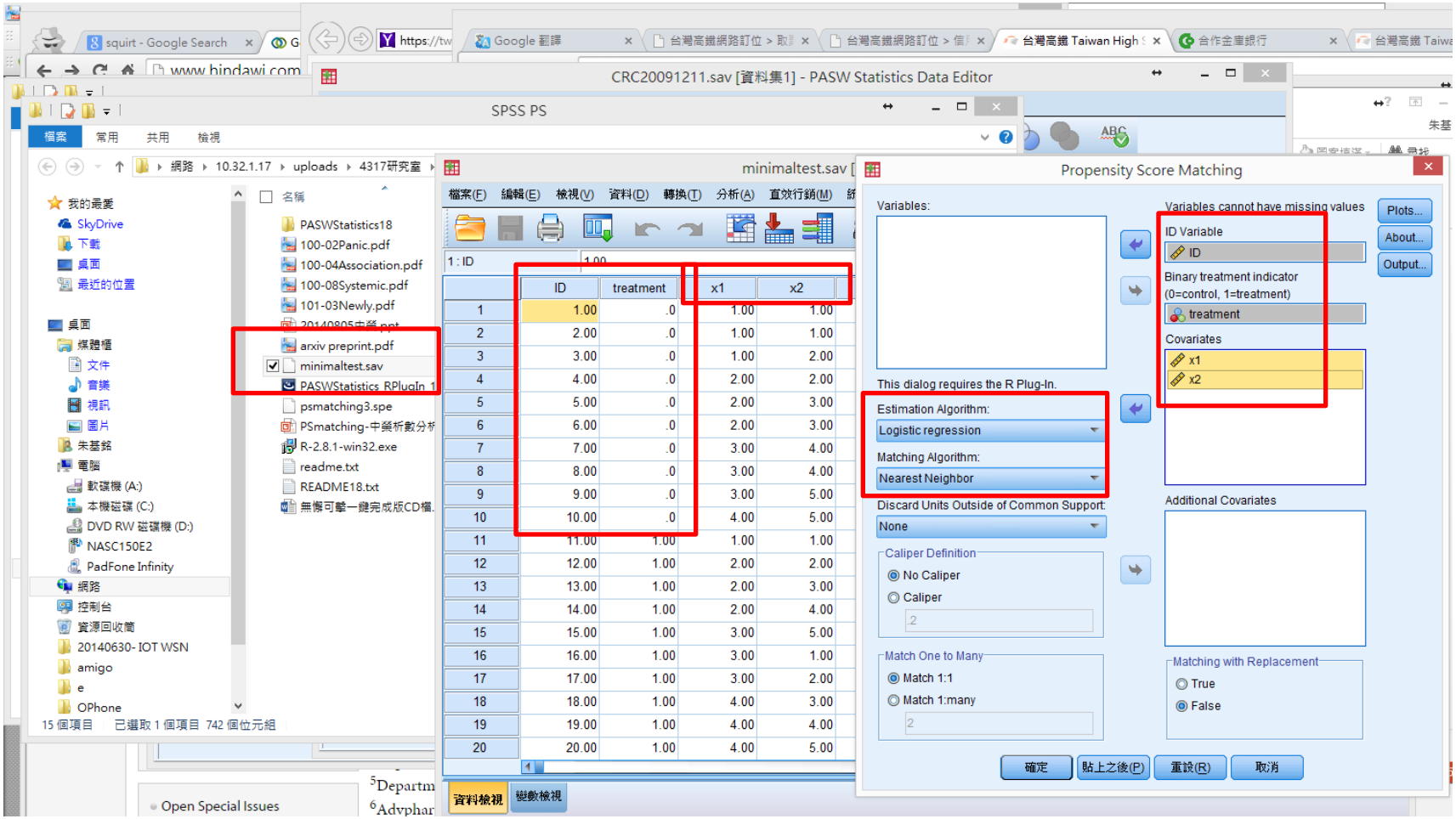
PS matching dataset



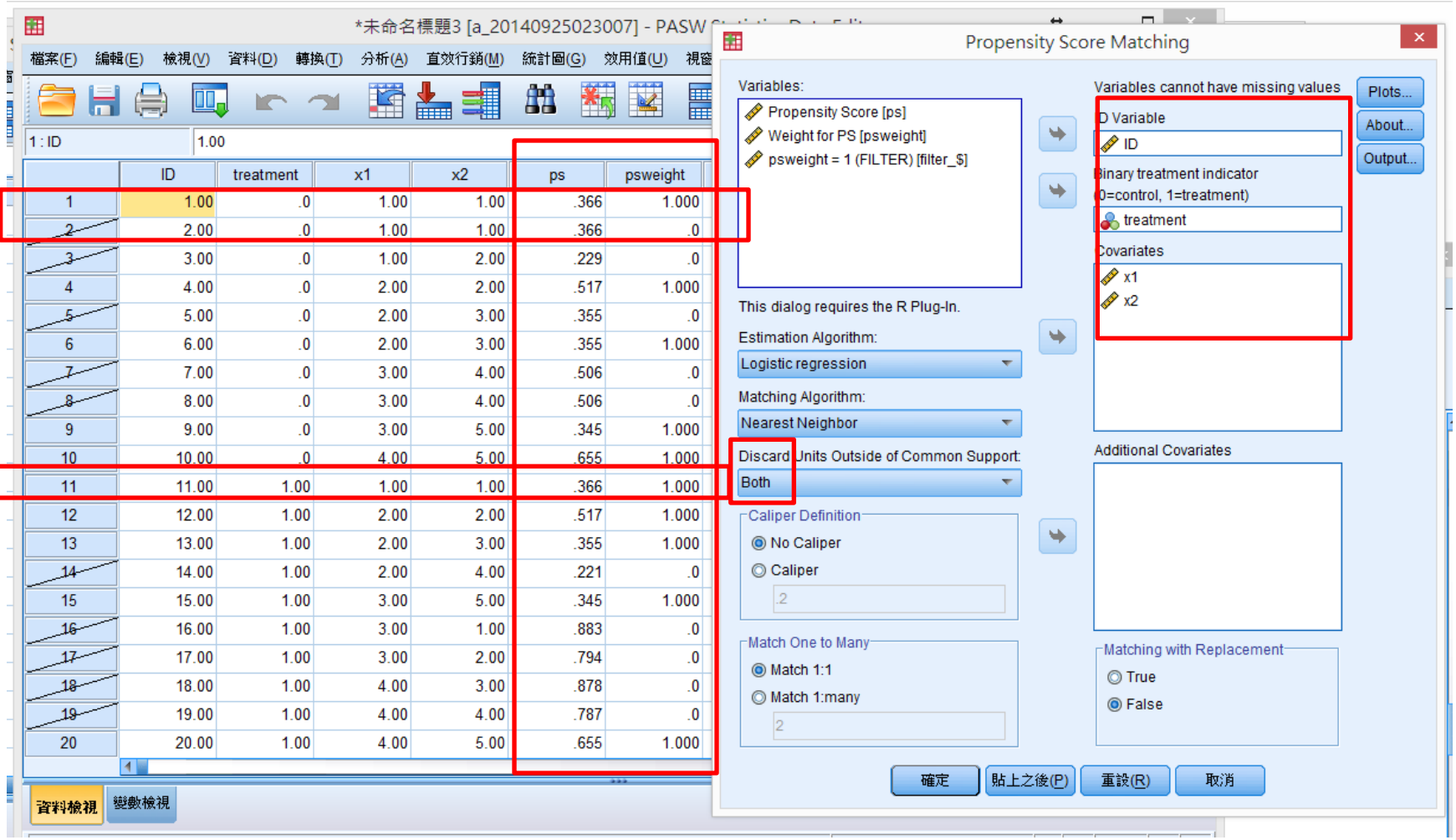
SPSS analyze PS matching



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



Discard Both



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\minima

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

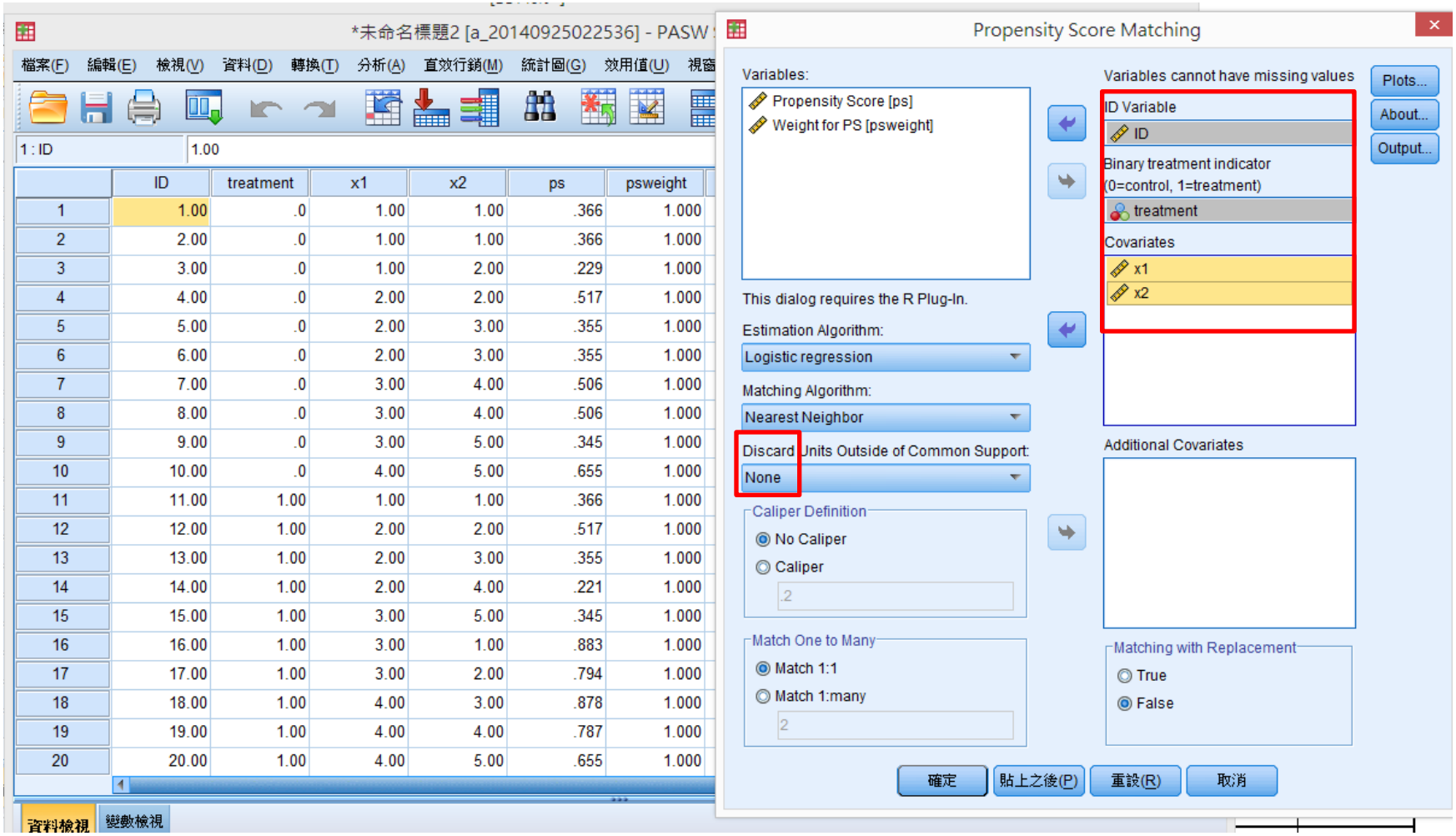
Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	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



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, 2

	chisquare	df	p.v
Overall	3.109	2.000	

Relative multivariate imbalance L1 (lacu 2010)

	Before matchi
Multivariate imbalance measure L1	.5(

Summary of unbalan

	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

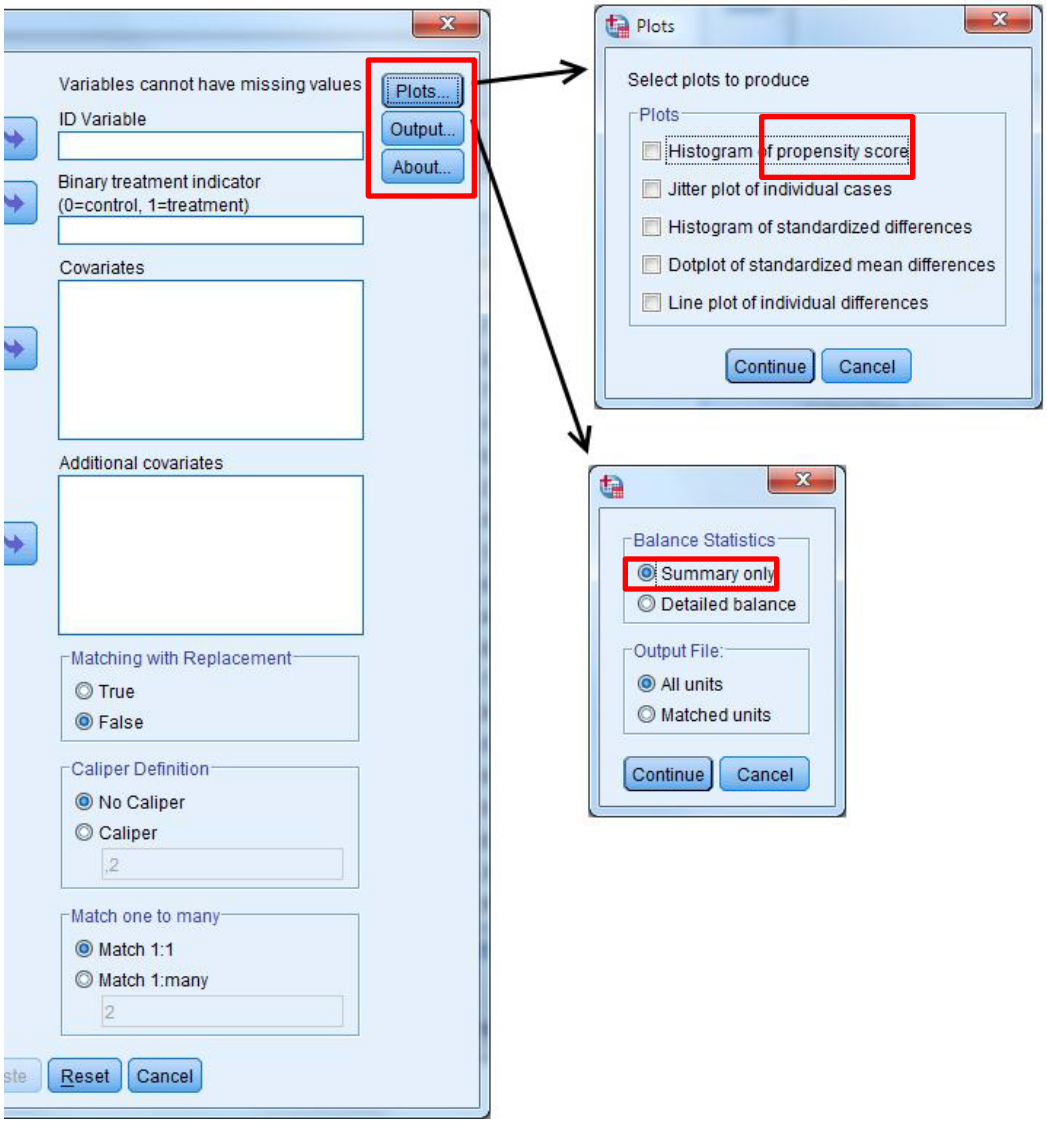
Relative multivariate imbalance L1 (Iacus, King, & Porro, 2010)

	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

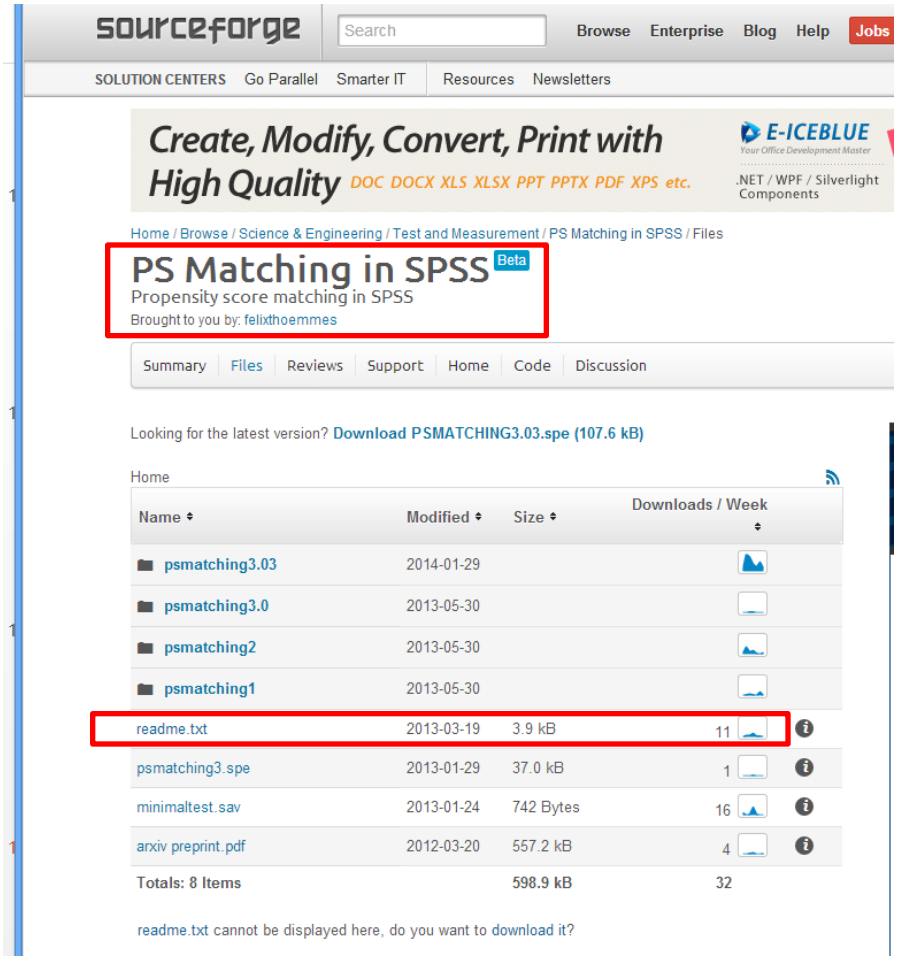


外掛 PSMatching

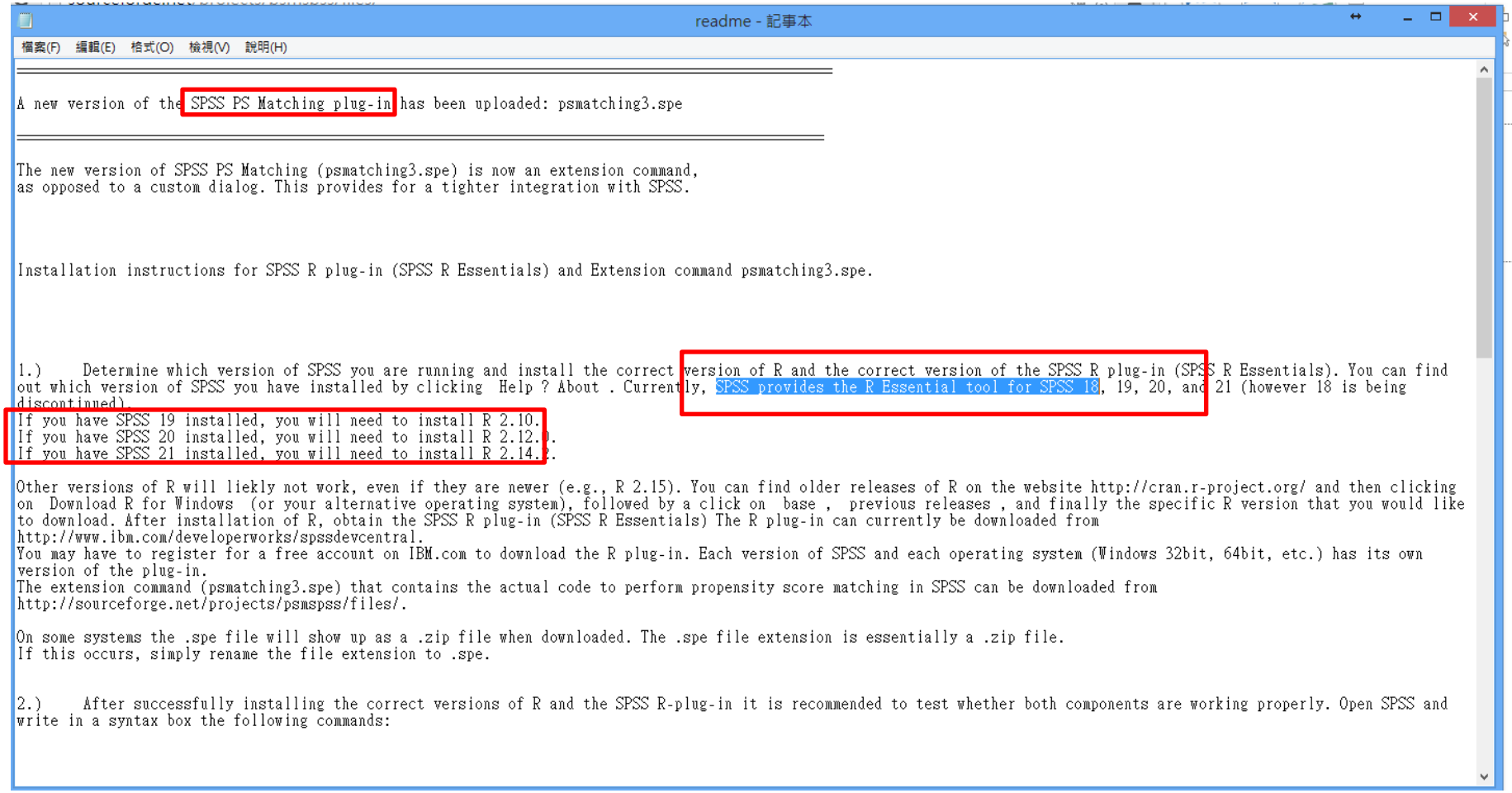
- R 2.8.1 =>R-2.8.1-win32.exe http://cran.r-project.org/bin/windows/base/old/2.8.1/
- R Eseentials plug-in for SPSS 18 =>PASWStatistics_RPlugIn_1802_win32.exe http://sourceforge.net/projects/ibmspsstat/files/Versions%20for%20Statistics%2018/PASWStatistics_RPlugIn_1802_win32.exe/download
- PSMatching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

PS matching .pse

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



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 2.12.0.
If you have SPSS 21 installed, you will need to install R 2.14.2.

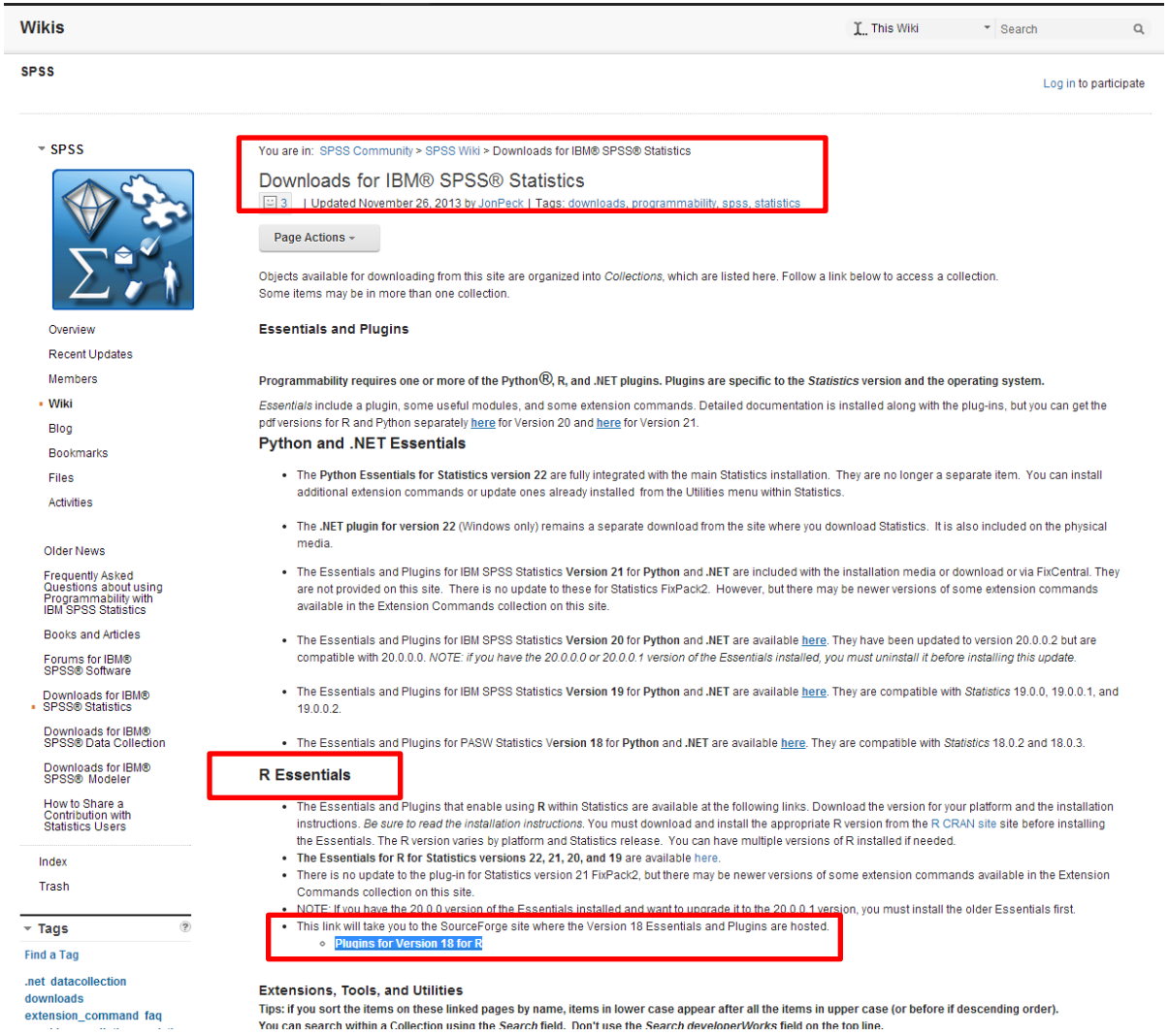
Other versions of R will liekly not work, even if they are newer (e.g., R 2.15). You can find older releases of R on the website http://cran.r-project.org/ and then clicking on Download R for Windows (or your alternative operating system), followed by a click on base , previous releases , and finally 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/psmspss/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



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Downloads for IBM® SPSS® Statistics

3 | Updated November 26, 2013 by JonPeck | Tags: downloads, programmability, spss, statistics

Page Actions

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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

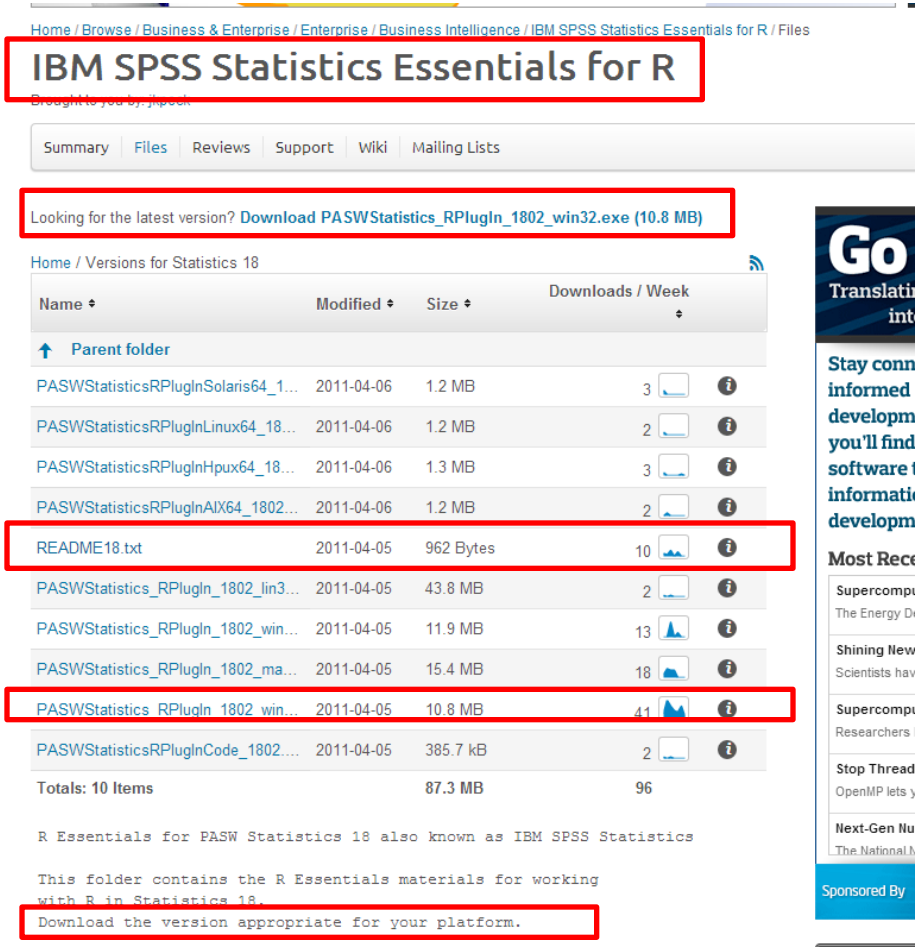
- The Essentials and Plugins that enable using **R** within Statistics are available at the following links. Download the version for your platform and the installation instructions. *Be sure to read the installation instructions.* You must download and install the appropriate R version from the R CRAN site 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

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Home / Versions for Statistics 18

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PASWStatisticsRPlugInSolaris64_1...	2011-04-06	1.2 MB	3
PASWStatisticsRPlugInLinux64_18...	2011-04-06	1.2 MB	2
PASWStatisticsRPlugInHpux64_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
PASWStatistics_RPlugIn_1802_lin3...	2011-04-05	43.8 MB	2
PASWStatistics_RPlugIn_1802_win...	2011-04-05	11.9 MB	13
PASWStatistics_RPlugIn_1802_ma...	2011-04-05	15.4 MB	18
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.
Download the version appropriate for your platform.

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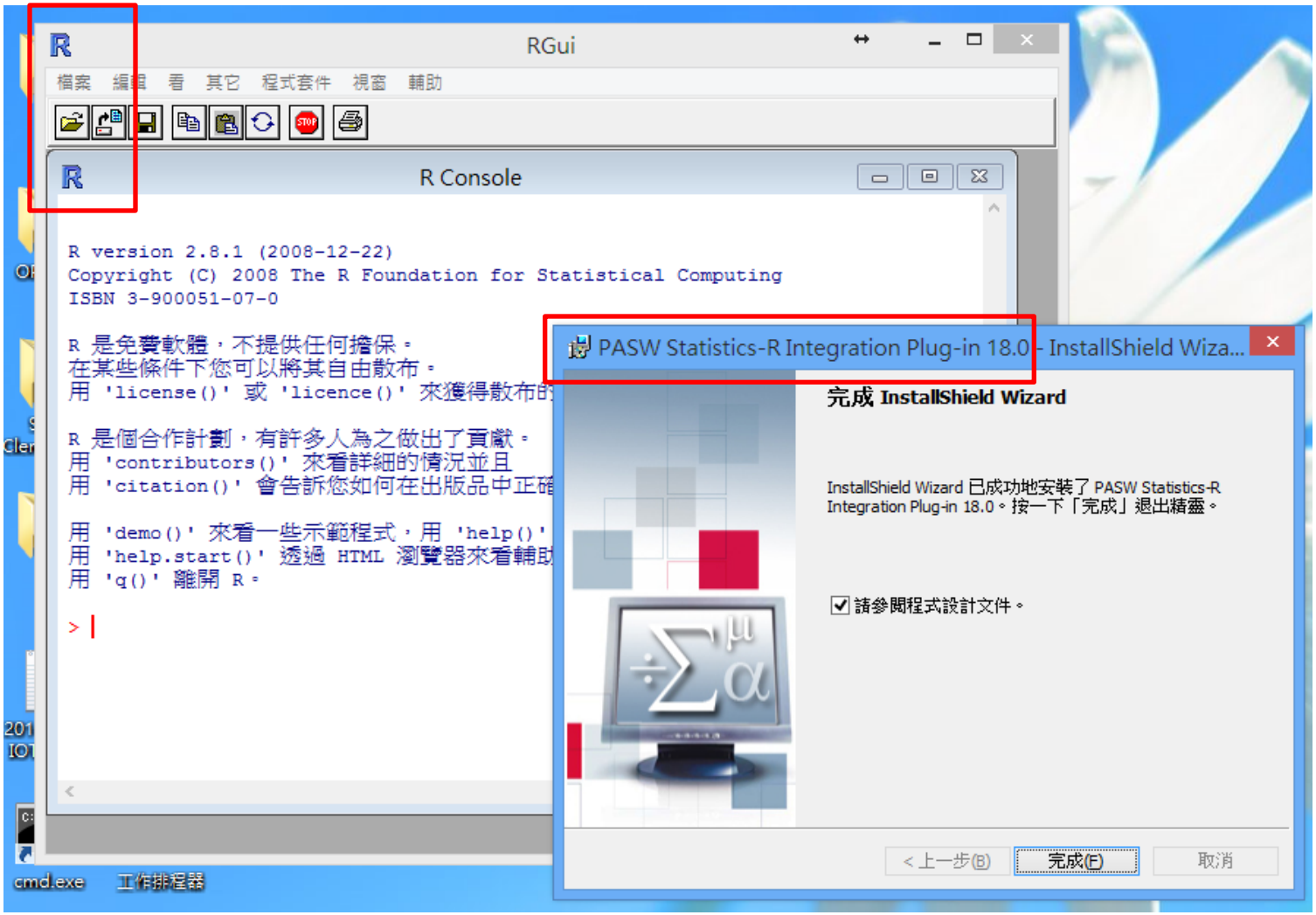
R

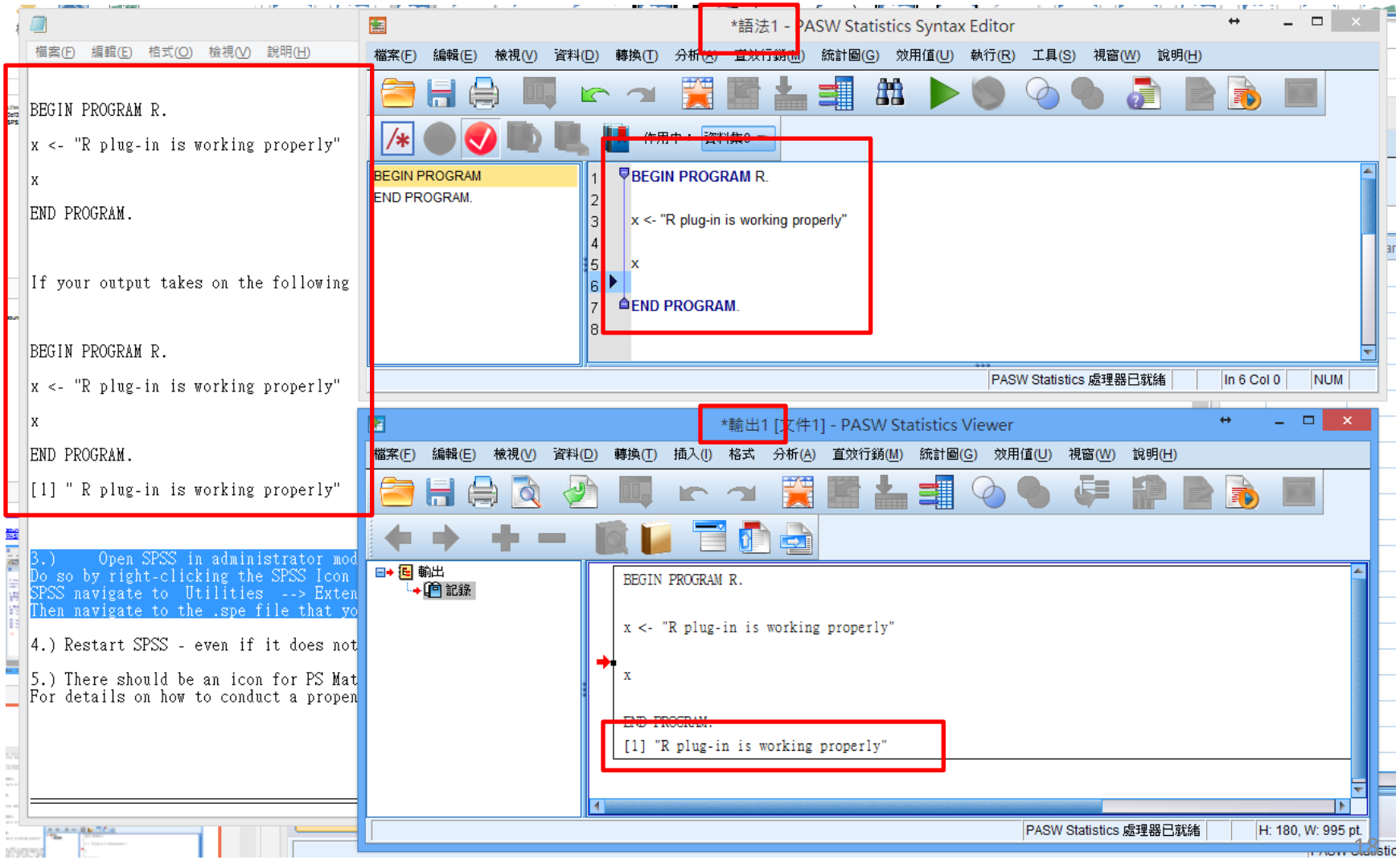
http://cran.r-project.org/bin/windows/base/old/2.8.1/

SPSS R Plugin

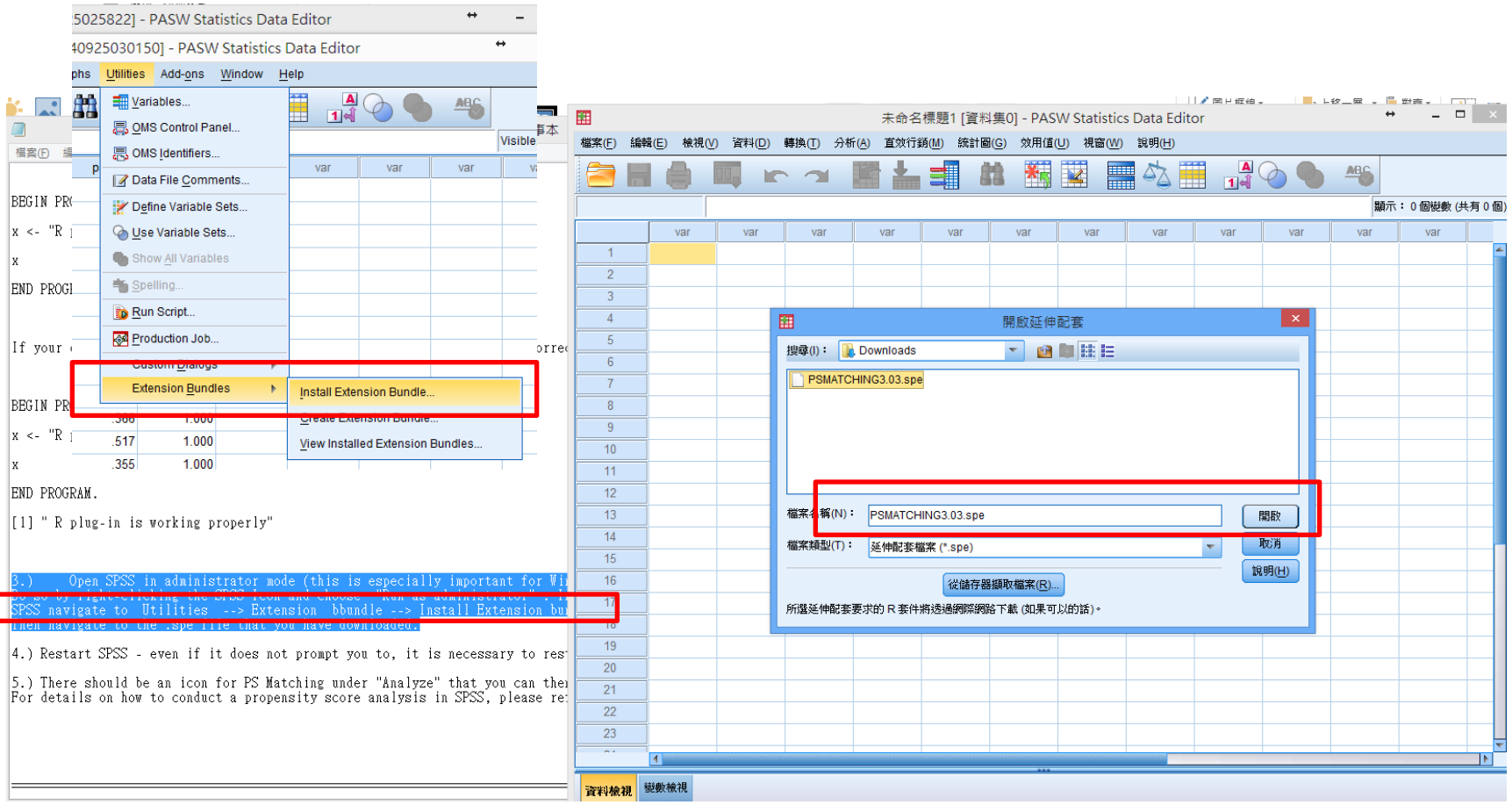
http://sourceforge.net/projects/ibmspssstat/files/Versions%20for%20Statistics%2018/PASWStatistics_RPlugIn_1802_win32.exe/download



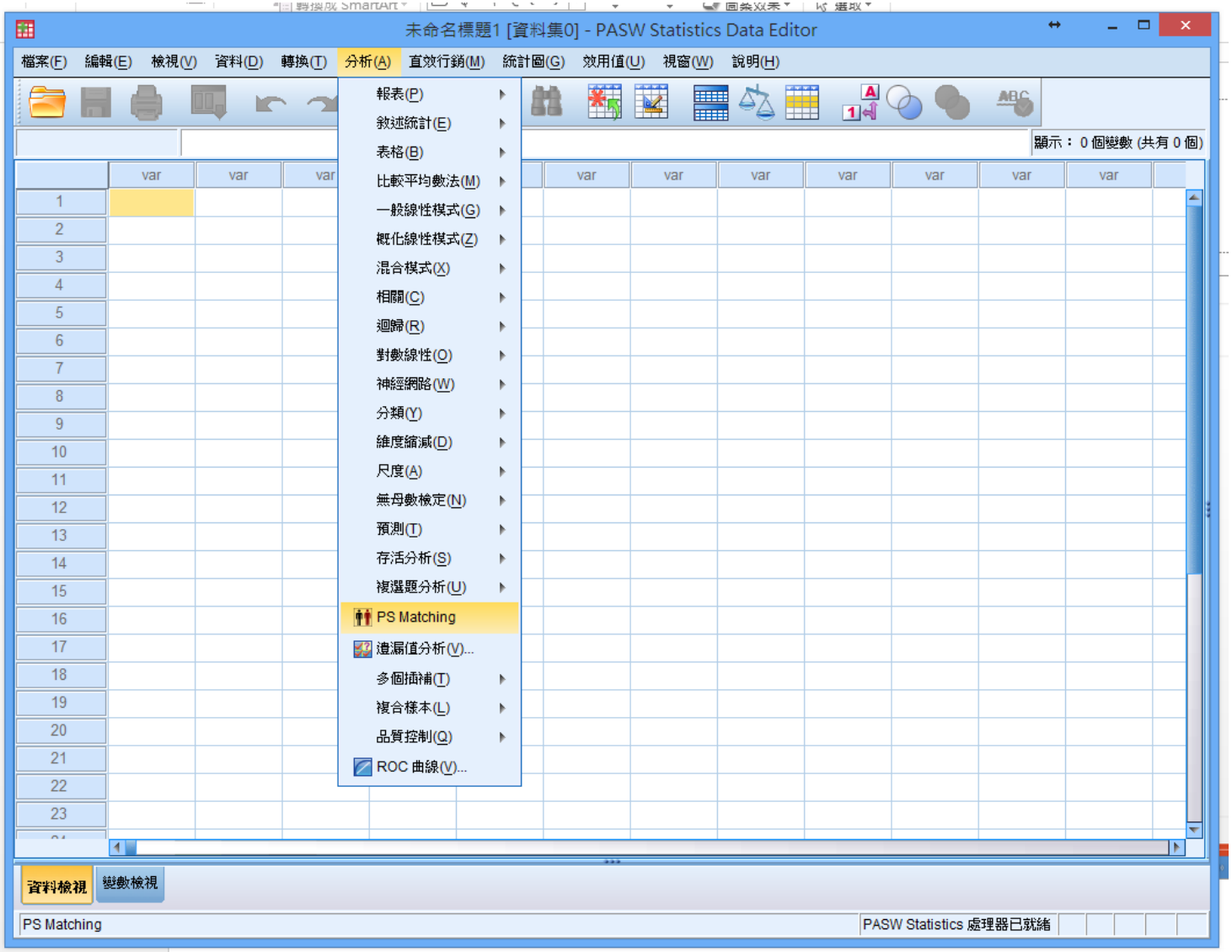
SPSS R plug-in works



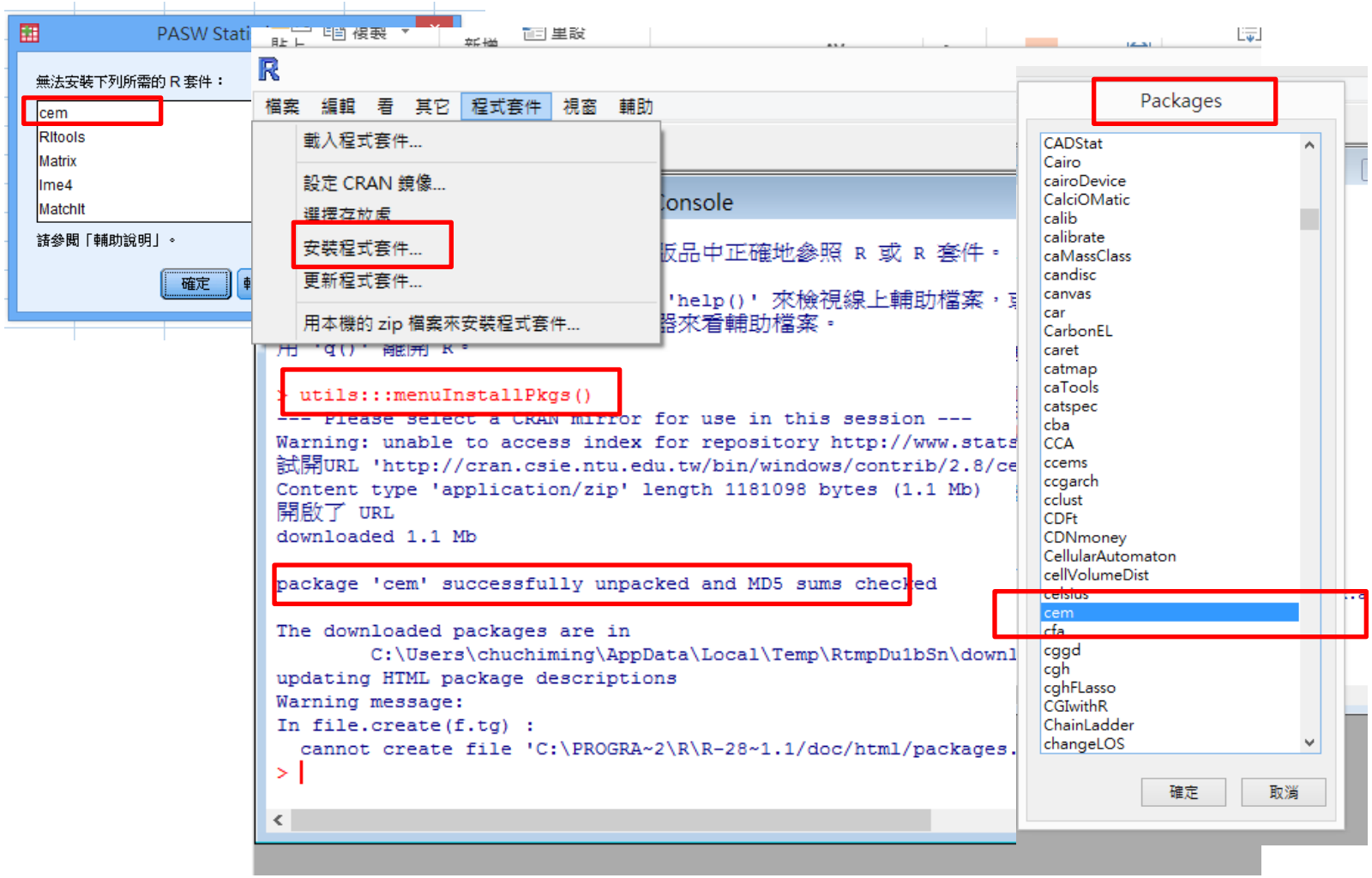
Install .spe in SPSS



SPSS analyze PS matching



加裝 R cem


PASW Stati
無法安裝下列所需的 R 套件：
cem
RItools
Matrix
lme4
MatchIt
請參閱「輔助說明」。
確定
檔案 編輯 看 其它 程式套件 視窗 輔助
載入程式套件...
設定 CRAN 鏡像...
安裝程式套件...
更新程式套件...
用本機的 zip 檔案來安裝程式套件...
> utils:::menuInstallPkgs()
--- Please select a CRAN mirror for use in this session ---
Warning: unable to access index for repository http://www.stats
試開URL 'http://cran.csie.ntu.edu.tw/bin/windows/contrib/2.8/ce
Content type 'application/zip' length 1181098 bytes (1.1 Mb)
開啟了 URL
downloaded 1.1 Mb
package 'cem' successfully unpacked and MD5 sums checked
The downloaded packages are in
C:\Users\chuchiming\AppData\Local\Temp\RtmpDu1bSn\downl
updating HTML package descriptions
Warning message:
In file.create(f.tg) :
cannot create file 'C:\PROGRA~2\R\R-28~1.1/doc/html/packages.
>
Packages
CADStat
Cairo
cairoDevice
CalciOMatic
calib
calibrate
caMassClass
candisc
canvas
car
CarbonEL
caret
catmap
caTools
catspec
cba
CCA
ccems
ccgarch
cclust
CDFt
CDNmoney
CellularAutomaton
cellVolumeDist
cem
cfa
cggd
cgh
cghFLasso
CGIwithR
ChainLadder
changeLOS
確定
取消

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 ...
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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 ...
被引用 2687 次 相關文章 全部共 15 個版本 Web of Science: 1564 引用 儲存

Statins and cancer risk: a meta-analysis
KM Dale, CI Coleman, NN Henyan, J Kluger... - Jama, 2006 - archopht.jamanetwork.com
1.
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 ...
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ORIGINAL ARTICLE

Statin Use and Reduced Cancer-Related Mortality

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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.

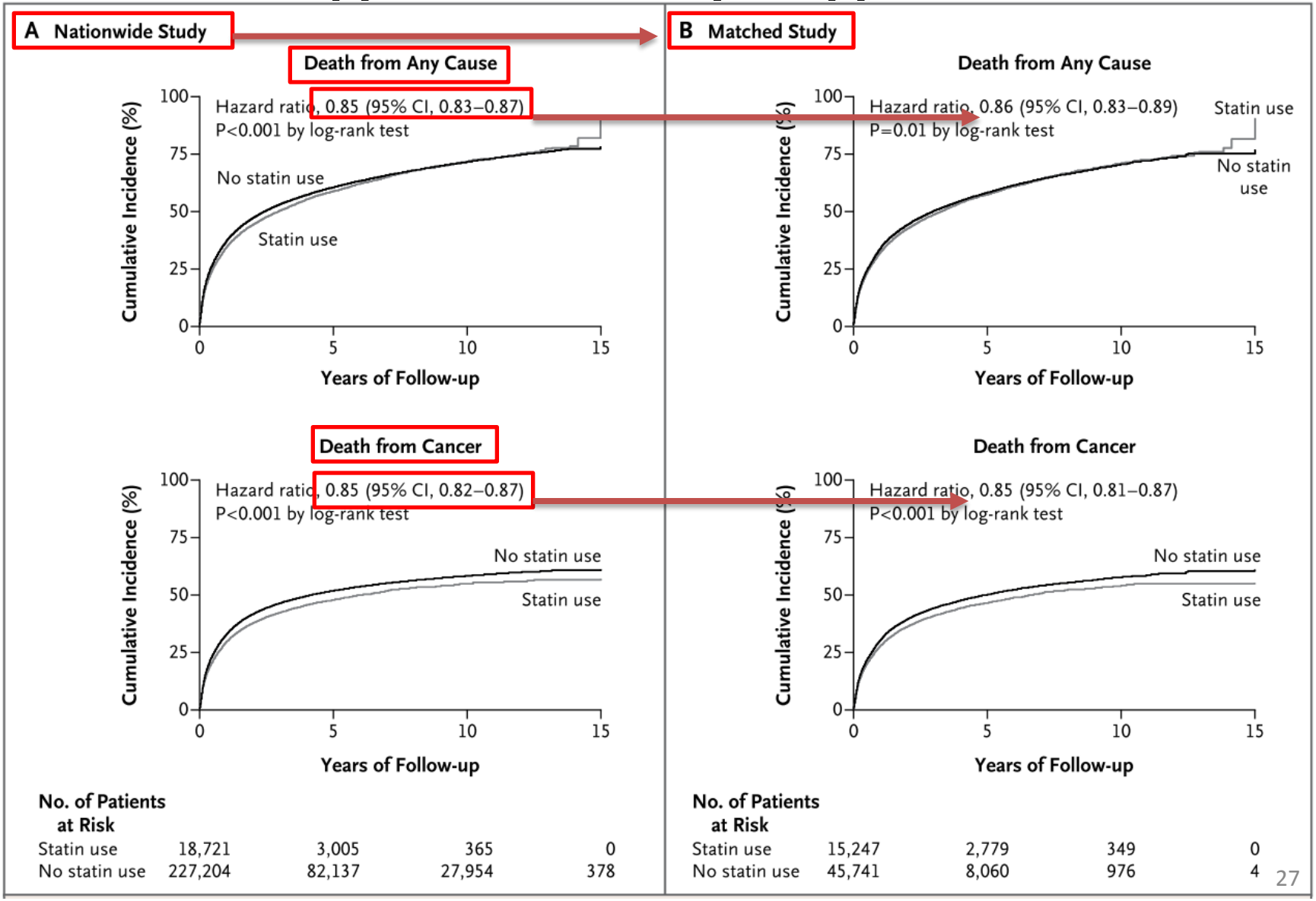
CONCLUSIONS

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)	

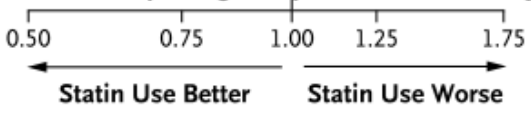
Cox regression by log-rank test



Dosage effect

B Matched Study

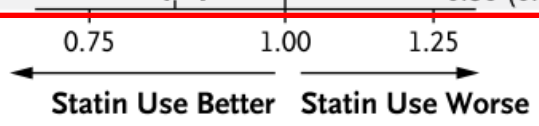
Cause of Death and Statin Dose	No. of Patients	No. of Deaths	Hazard Ratio (95% CI)	P Value
Any cause				
0.00	45,741	26,271	1.00	
0.01–0.75	8,162	4,741	0.83 (0.81–0.87)	<0.001
0.76–1.50	4,927	2,721	0.88 (0.85–0.93)	<0.001
>1.50	2,158	1,176	0.87 (0.81–0.93)	<0.001
Cancer				
0.00	45,741	22,584	1.00	
0.01–0.75	8,162	3,844	0.82 (0.80–0.86)	<0.001
0.76–1.50	4,927	2,203	0.87 (0.82–0.91)	<0.001
>1.50	2,158	946	0.85 (0.80–0.91)	<0.001
Cardiovascular cause				
0.00	45,741	1,373	1.00	
0.01–0.75	8,162	468	1.08 (0.95–1.21)	0.19
0.76–1.50	4,927	258	1.24 (1.08–1.42)	0.002
>1.50	2,158	108	1.23 (1.00–1.50)	0.05
Other cause				
0.00	45,741	2,314	1.00	
0.01–0.75	8,162	429	0.73 (0.66–0.81)	<0.001
0.76–1.50	4,927	260	0.81 (0.70–0.93)	0.002
>1.50	2,158	122	0.82 (0.68–1.00)	0.06



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

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