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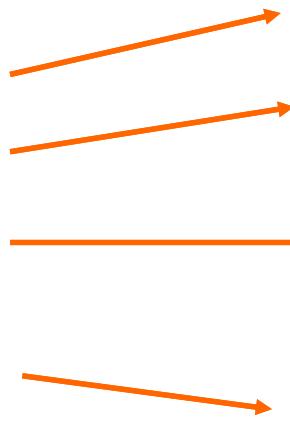
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Association of high body lead store with severe intracranial carotid atherosclerosis

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ABSTRACT

Objective: Lead is involved in the pathogenesis of atherosclerosis and hypertensive disease and may be related to cerebrovascular disease. We studied the association of body lead level with stroke subtypes and severity of cerebral atherosclerosis in order to identify the significance of lead exposure to cerebrovascular disease.

Methods: From April, 2002 to March, 2005, we studied the lead level in all patients receiving digital subtraction angiography. Diameter stenosis at extracranial carotid, intracranial carotid and vertebrobasilar system was calculated according to the NASCET criteria. A blood sample and a mobilization test of 72-h urine sample were collected for lead measurement.

Results: In a total of 213 subjects, 19 were free of stroke (blood lead level = 4.62 ± 2.41 µg/dL, body lead store = 39.04 ± 20.91 µg) and 194 were stroke patients (4.89 ± 2.75 µg/dL, 45.13 ± 29.8 µg; all stroke vs. non-stroke, P > 0.05). In the 153 subjects with atherosclerotic origin, body lead store but not blood lead level in the intracranial carotid system was significantly higher in ≥50% group than <50% group (blood lead: 5.61 ± 3.02 µg/dL vs. 4.80 ± 2.50 µg/dL, Student's t-test, P = 0.129; body lead store: 51.7 ± 27.0 µg vs. 41.9 ± 23.5 µg, Student's t-test, P = 0.038, multivariate logistic regression, odds ratio = 1.02, 95% CI: 1.00–1.03, P = 0.043). However, there was no significant association between lead level and stenotic severity in extracranial and vertebrobasilar systems (P > 0.05).

Conclusion: Our study demonstrated that long-term lead exposure as measured by body lead store might carry a potential risk of intracranial carotid atherosclerosis.

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- Introduction

1. Introduction

Previous studies indicated that lead has specific toxicities in the proliferation, fibrinolysis, and extracellular matrix formation of vascular endothelial and smooth muscle cells, resulting in vascular disorders such as atherosclerosis in experimental animals (Kaji, 2004). Lead may induce aortic atherosclerosis in pigeons (Revis et al., 1981) and stimulate the proliferation of cultured rabbit aortic smooth muscle cells in varying degrees (Lu et al., 1990). Lead can also stimulate the proliferation of the vascular smooth muscle cells and fibroblasts (Fujiwara et al., 1995) and inhibit the repair process of damaged endothelial cell layer (Fujiwara et al., 1997) in *in vitro* studies. Animal study showed that lead may cause severe injury to endothelium of brain vasculature (Bradbury and Deane, 1988;

Linnamagi and Kaasik, 1995) and induces cerebral microvascular dysfunction with following changes in cerebral blood flow (Linnamagi and Kaasik, 1995). Hence, it is likely that lead is involved in the pathogenesis of cerebral atherosclerosis and may be related to cerebrovascular disease.

Cerebrovascular disease or stroke has been one of the first three leading causes of death in the past four decades in Taiwan (Jeng and Su, 2007) and is more common in Taiwanese than in Whites (Hu et al., 1992; Goldstein et al., 2006). The distribution of cerebral atherosclerosis in stroke patients is different between races, and atherosclerosis of the larger extracranial arteries is more prevalent in Whites, while occlusive disease of the intracranial arteries is more often seen in patients of Black or oriental origin (Feldmann et al., 1990; Leung et al., 1993; Liu et al., 1996; Jeng and Su, 2007). Regarding stroke subtype, small vessel occlusion and large artery atherosclerosis are related to atherosclerosis, while strokes of cardiogenic embolism and other determined etiology are less related. Hemorrhagic stroke is more common in oriental people

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 - Method
 - Result
 - Discussion

intracranial and extracranial atherosclerosis with high sensitivity. However, due to the invasiveness and ethical concern, the angiographic study is unable to apply in every stroke patient, and it is likely that we studied a group of patients with high risk atherosclerosis. Third, we examined both single blood lead levels and 72-hr urine lead levels to calculate the lead store for the same subject. The body lead store can represent the long-term lead load and is able to measure the long-term influence of lead on atherosclerosis. Our study suggests that body lead store might more sensitive than single blood lead level in the prediction

Conflict of interest

Authors have nothing to declare.

Acknowledgments

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1. Introduction

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atherosclerosis and in atherosclerosis-related stroke subtypes.

2. Materials and methods

2.1. Patient enrollment

From April, 2002 to March, 2005, we conducted this cross-sectional study in all patients receiving cerebral digital subtraction angiography in the Department of Neurology, Chang Gung Memorial Hospital, Linkou Medical Center. All patients received chest X-ray, electrocardiogram, complete blood count (hemoglobin, hematocrit, platelet, leucocyte), blood glucose, electrolytes

3. Results

During the study period, a total of 221 patients received carotid angiography. Of them, 116 patients had extracranial carotid stenosis ($\geq 50\%$ diameter stenosis), 63 had intracranian carotid stenosis, 97 had vertebralbasilar stenosis, and 64 had $<50\%$ stenosis in all vascular territory. Three subjects had blood lead level and body lead store exceeding three standard deviations of the corresponding measure, and five subjects did not receive

4. Discussion

Previous autopsy study reported a positive association between tissue lead level and risk of heart-related mortality (Voors et al., 1982). Some cohort studies found a positive association of blood lead level due to environmental exposures with the risk of cardiovascular and stroke mortality (Menke et al., 2006; Schobert et al., 2006), with the prevalence of peripheral artery disease

Linnamagi and Kaasik, 1995) and induces cerebral microvascular dysfunction with following changes in cerebral blood flow (Linnamagi and Kaasik, 1995). Hence, it is likely that lead is involved in the pathogenesis of cerebral atherosclerosis and may be related to cerebrovascular disease.

Cerebrovascular disease or stroke has been one of the first three leading causes of death in the past four decades in Taiwan (Jeng and Su, 2007) and is more common in Taiwanese than in Whites (Hu et al., 1992; Goldstein et al., 2006). The distribution of cerebral atherosclerosis in stroke patients is different between races, and atherosclerosis of the larger extracranial arteries is more prevalent in Whites, while occlusive disease of the intracranial arteries is more often seen in patients of Black or oriental origin (Feldmann et al., 1990; Leung et al., 1993; Liu et al., 1996; Jeng and Su, 2007). Regarding stroke subtype, small vessel occlusion and large artery

or TIA were classified into non-atherosclerosis group, if the vascular lesion was due to etiologies other than atherosclerosis, such as vascular anomaly and vasculopathy due to radiation.

2.4. Measurement of lead

In the present study, we examined the single blood lead level and total 72-h urine lead amount (body lead store) before cerebral angiography. Body lead store was determined according to our previous method (Lin et al., 2003) which used the mobilization test developed by Emmerson (1963) and modified by Behringer et al. (1986). Each subject emptied his or her bladder on the first day of

and body lead store when compared to other determined etiology (Student's *t*-test, $P = 0.001$ and 0.043 , respectively), but there was no significance in multivariate logistic regression analysis ($P = 0.05$). Hemorrhage stroke had significantly lower blood lead level than large artery atherosclerosis in univariate analysis (Student's *t*-test, $P = 0.009$), but not in multivariate analysis after adjustment for age, sex, HT, DM, cholesterol, triglyceride, uric acid, smoking and alcohol consumption ($P = 0.05$).

To study the association between atherosclerotic severity and lead level, the eight subjects with hemorrhagic stroke were excluded from analysis. Table 2 shows that in the 205 subjects, 52

Several strengths and limitations of this study should be considered. First, our analysis showed that among different stroke subtypes, large artery atherosclerosis tends to have higher blood lead level and body lead store, though with no statistical significance. The statistical insignificance might be due to a small sample size. Second, we used the gold standard of digital subtraction angiography to examine cerebral vasculature. The detailed cerebral artery study can make a clear classification of TOAST stroke subtypes and allow us to evaluate the severity of

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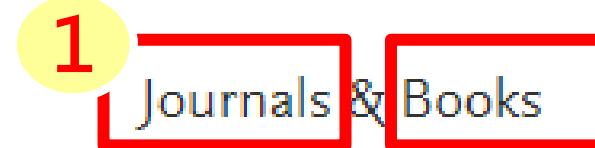
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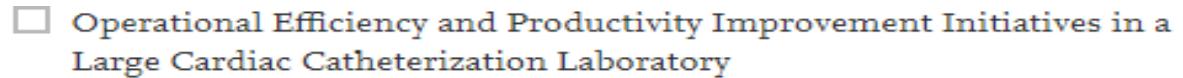
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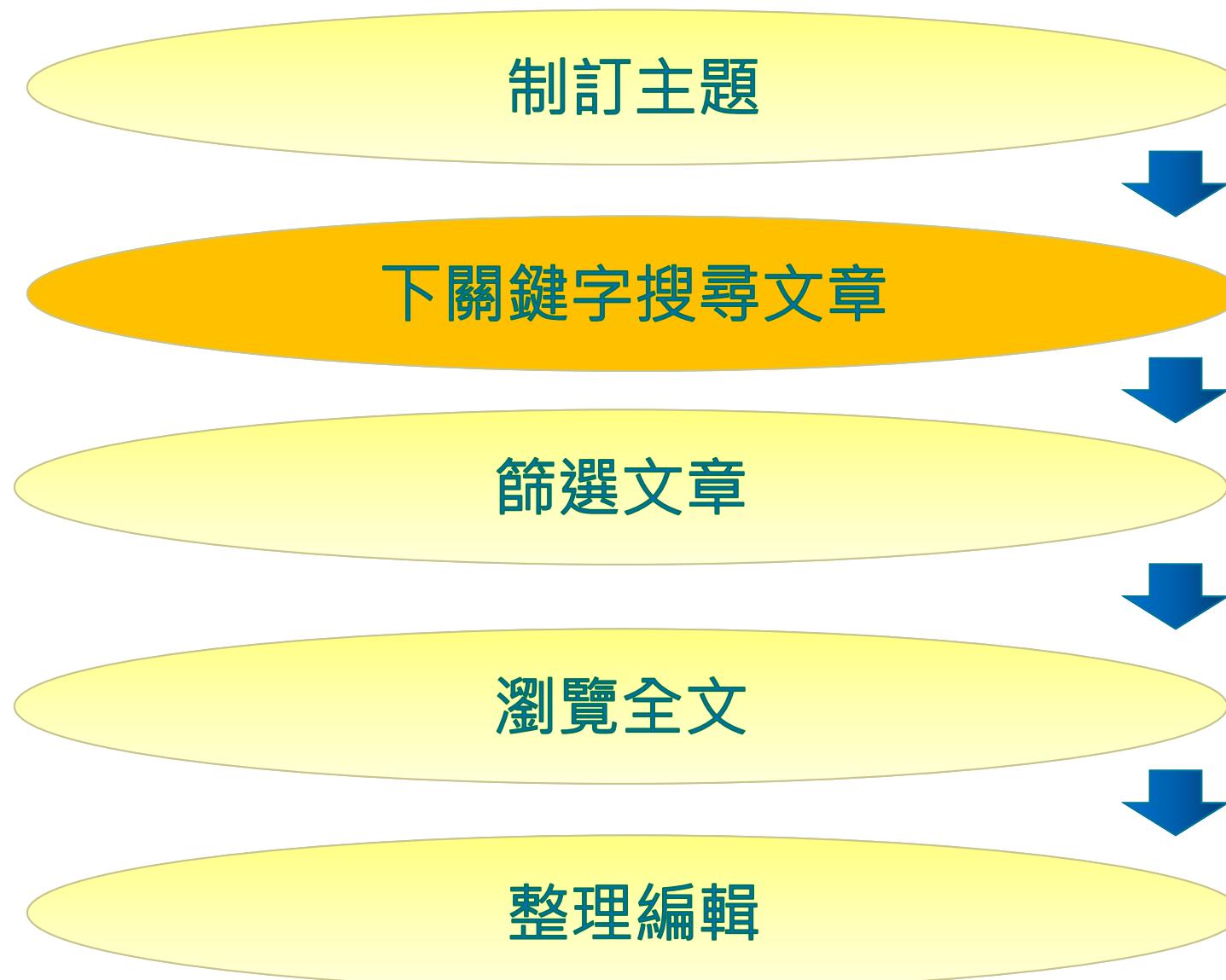
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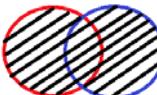
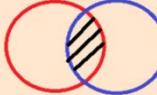
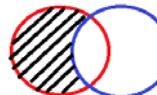
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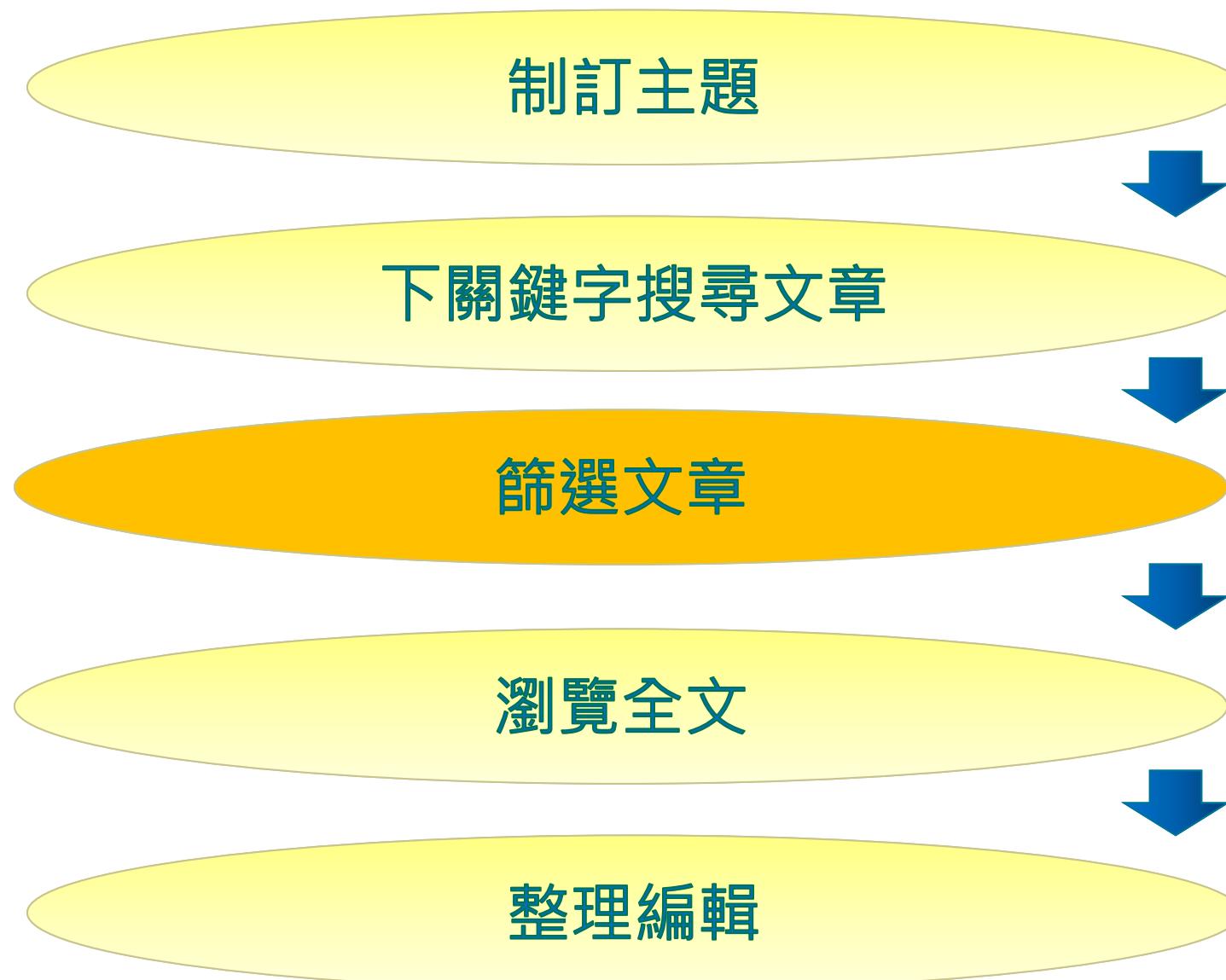
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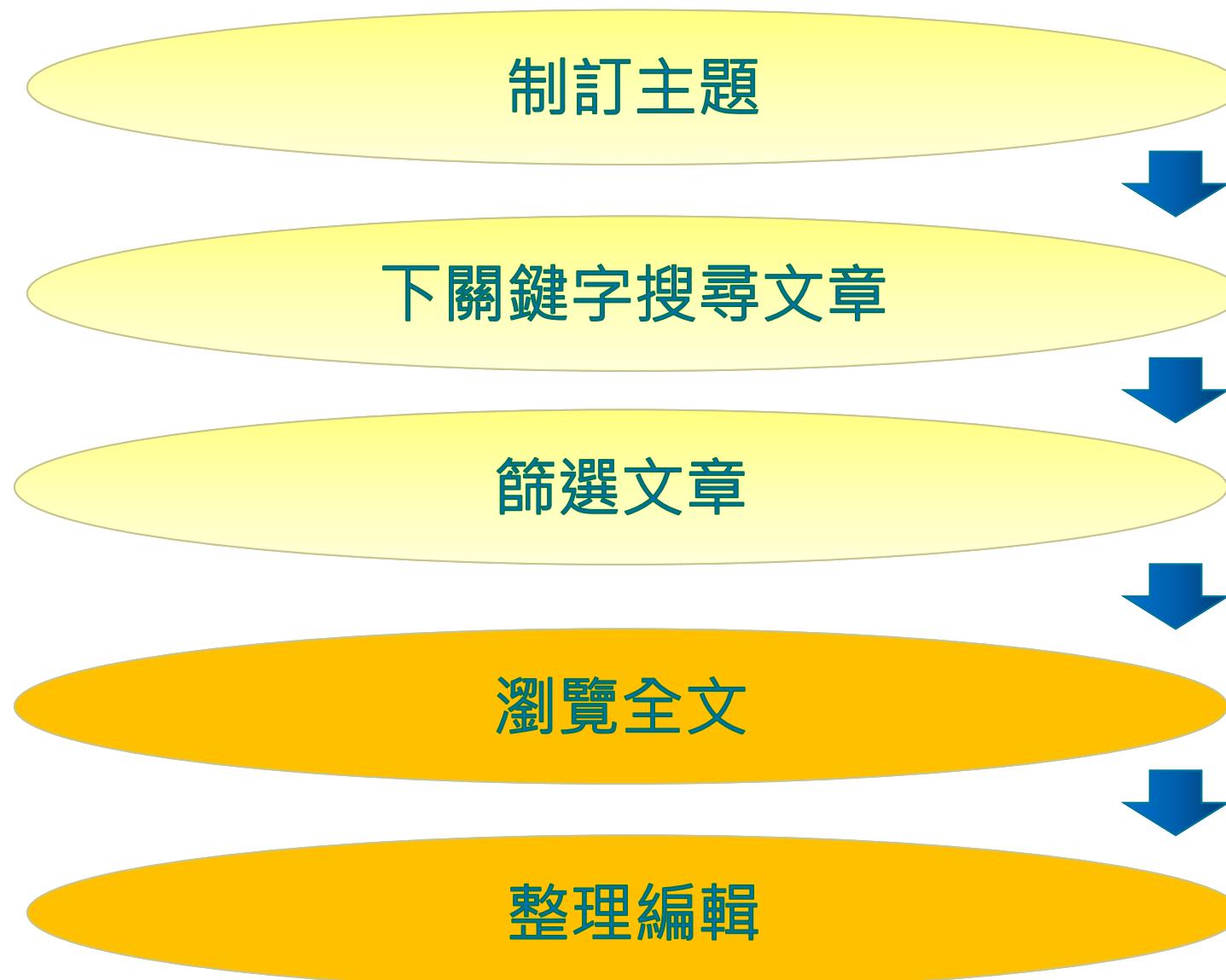
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 Research article ● Full text access

文獻種類

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Marital history and survival after a heart attack

文獻標題名稱

Social Science & Medicine, Volume 170, December 2016, Pages 114-123

出版品名稱與卷期資訊

Matthew E. Dupre, Alicia Nelson

作者

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摘要

匯出

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Ultrasensitive cardiac troponin I antibody based nanohybrid sensor for rapid detection of human heart attack

International Journal of Biological Macromolecules, Volume 95, February 2017, Pages 505-510

Deepika Bhatnagar, Inderpreet Kaur, Ashok Kumar

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Homicide by heart attack?

Legal Medicine, Volume 11, Supplement 1, April 2009, Pages s531-s532

Fabio De Giorgio, Vincenzo Arena, Elisa Arena, Maria Lodise, ... Vincenzo L. Pascali

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Marital history and survival after a heart attack ← 點選文獻標題進入網頁全文

Research article

Social Science & Medicine, Volume 170, December 2016, Pages 114-123



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Outline

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Highlights

重點標示
摘要

Abstract

Keywords

1. Background

2. Methods

3. Results

4. Discussion

Funding

References

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Figures (1)

圖



Tables (3)

表

Table 1

Table 2

Table 3

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Social Science & Medicine
Volume 170, December 2016, Pages 114-123



Marital history and survival after a heart attack

Matthew E. Dupre ^{a, b, c}, Alicia Nelson ^b

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Highlights

- Deepens our understanding of how social relationships impact disease prognosis.
- Marital status is a robust indicator of survival after a heart attack.
- Risks from past marital loss are not ameliorated with remarriage.
- Implications for health policy and practice are discussed.

Source: ScienceDirect/Elsevier

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Social Science & Medicine

Volume 170, December 2016, Pages 114-123

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Marital history and survival after a heart attack

文献標題名稱

Matthew E. Dupre^{a, b, c}, Alicia Nelson^b

作者

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重點提示

- Deepens our understanding of how social relationships impact disease prognosis.

Abstract

摘要

Heart disease is the leading cause of death in the United States and nearly one million Americans will have a heart attack this year. Although the risks associated with a heart attack are well established, we know surprisingly little about how

[Previous article in issue](#)[Next article in issue](#)

可藉由方向鍵看前一篇或後一篇文章

Keywords

關鍵字

Marital status; Survival; Heart attack; Aging

1. Background 2. Methods 3. Results 4. Discussion

全文架構

References

摘要

Addo and Licher, 2013 Fenaba R. Addo, Daniel T. Licher
Marriage, marital history, and Black–White wealth differentials among

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Marital history and survival after a heart attack

Matthew E. Dupre^{a, b, c}, Alicia Nelson^b

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chronic conditions, limitations, etc.) or the development of illness (i.e., disease incidence). Only a handful of studies examine the role of marital status after the onset of illness (Burnley, 1999, Chandra et al., 1983, Kilpi et al., 2015, Lammintausta et al., 2013, Nielsen and Mard, 2010) and no existing studies consider which aspects of the marital life course are important to survival after a

F. Kilpi, H. Konttinen, K. Silventoinen, P. Martikainen
Living arrangements as determinants of myocardial infarction incidence and survival: a prospective register study of over 300,000 Finnish men and women

Soc. Sci. Med., 133 (2015), pp. 93-100

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Alicia Nelson

Department of Community and Family Medicine, Duke University, Durham, NC, USA

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Living arrangements as determinants of myocardial infarction incidence and survival: A prospective register study of over 300,000 Finnish men and women
Fanny Kilpi^a, Hanna Konttinen^b, Karri Silventoinen^a, Pekka Martikainen^{a, c}

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整理編輯(網頁全文頁中上)

ScienceDirect

The screenshot shows a ScienceDirect article page for 'Social Science & Medicine' (Volume 170, December 2016, Pages 114-123). At the top left are 'Download PDF' and 'Export' buttons. A red arrow points from the 'Download PDF' button to a yellow box containing the text '下載PDF 可選擇下載該文獻或下載該文獻+相關文獻'. A green arrow points from the 'Export' button to a yellow box containing the text '匯出 直接匯出 儲存至Mendeley 儲存至Refworks'. Below the main title, the article title is 'Marital history and survival after a heart attack' by Matthew E. Dupre et al. There is a 'Show more' link and a timestamp '2016.10.013'. On the right, there are 'Get rights and content' and 'Article' links.

The screenshot shows the ScienceDirect export menu. It includes 'Help' and 'You have selected 1 citation for export.' sections. Under 'Direct export', there are 'Save to Mendeley' and 'Save to Refworks' buttons. Under 'Export file', it shows 'Format' (RIS, BibTeX, Text) and 'Content' (Citation Only, Citation and Abstract) options, with an 'Export' button at the bottom. A large yellow box overlays the bottom right of the menu, containing the following text:
匯出
直接匯出
儲存至Mendeley
儲存至Refworks
匯出檔案
檔案類型
• RIS
• Bib Tex
• Text
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整理編輯(搜尋結果)

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Short communication Full text access

Extremely low prevalence of asymptomatic patients in Israel: a cross-sectional study

Clinical Microbiology and Infection, In press, corrected proof
Elizabeth Temkin

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Export X

2 citations selected

- > Save to RefWorks
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sorted by relevance | date

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Research article Full text access

Longitudinal multi-omics analyses identify responses of megakaryocytes, erythroid cells and plasmacytoid dendritic cells as hallmarks of severe COVID-19 trajectories

Immunity, In press, journal pre-proof, Available online 26 November 2020

Joana P. Bernardes, Neha Mishra, ... Thomas Bahmer

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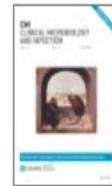
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Clinical Microbiology and Infection

Available online 1 October 2020

In Press, Corrected Proof



Research note

Extremely low prevalence of asymptomatic COVID-19 among healthcare workers caring for COVID-19 patients in Israeli hospitals: a cross-sectional study

Elizabeth Temkin

the Healthcare Worker COVID-19 Su 0.1016/j.cmi.2020.09.040

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- > Export citation to RIS
- > Export citation to BibTeX
- > Export citation to text

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Source: ScienceDirect/Elsevier

整理編輯(PDF或ris 檔匯出至Mendeley) ScienceDirect



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新知通報(設定個人化服務)

ScienceDirect

The screenshot shows the ScienceDirect registration page. At the top right, there are links for 'Journals', 'Books', 'Register' (which is highlighted with a red box and a red arrow pointing to it), and 'Sign in >'. Below these, there is a yellow box containing the text '註冊' (Register) and '登入' (Sign in). The main form is titled 'Create an account' and includes fields for 'First name', 'Family name', 'Email', and 'Password'. At the bottom left, there is a note about agreeing to terms and conditions and privacy policy. A large yellow box at the bottom right contains the text '需先設定帳密, 才能
登入設定個人化服務' (You must set a password first to log in and set up personalized services). A blue button labeled 'Create >' is located at the bottom right of the form area.

Search for peer-reviewed journals, articles, book chapters and open access content.

Keywords Author name

More than
Our free Recom

Create an account

First name Family name

Email

Password

By creating an account you agree with Elsevier website terms and conditions and Privacy Policy.

需先設定帳密, 才能
登入設定個人化服務

Create >

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新知通報(搜尋新知通報)

ScienceDirect

將該搜尋語法設定新知通報，以獲取相關主題最新文章

Find articles with these terms
"heart attack"

Jade Li

請先登入

Advanced search

32,363 results

Save search alert

X

Name of search alert *

請填入通報名稱

Email frequency

Weekly

Articles

Export

val after a heart attack

Volume 170, December 2016, Pages 114-123

on

Abstract Export

Refine by:

Years

 2019 (13) 2018 (1,377) 2017 (1,377)

Monthly

Please note: This alert will be sent to your registered email address

* Required field

可選擇每星期或每月通知

✓ Search alert saved

Your search alert was saved as:
"heart attack"

Close

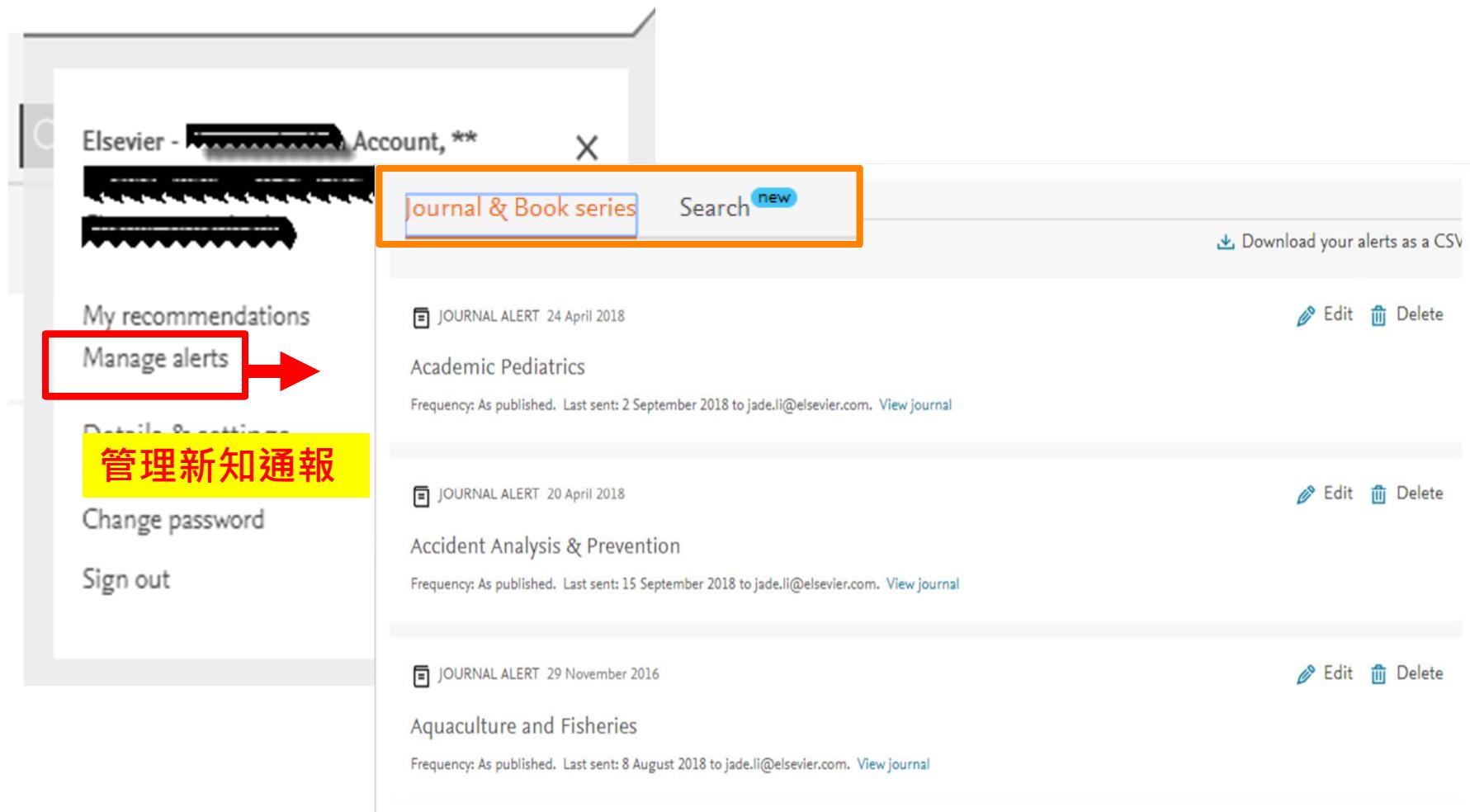
新知通報(搜尋新知通報)

ScienceDirect

Journals

Books

Jade Li 



The screenshot shows the Elsevier Research Intelligence interface. On the left, a sidebar menu includes 'My recommendations', 'Manage alerts' (which is highlighted with a red box and a red arrow pointing to it), 'Change password', and 'Sign out'. A yellow box highlights the '管理新知通報' (Manage New Alerts) link under 'Manage alerts'. The main content area displays three journal alerts:

- Academic Pediatrics**
Frequency: As published. Last sent: 2 September 2018 to jade.li@elsevier.com. [View journal](#)
- Accident Analysis & Prevention**
Frequency: As published. Last sent: 15 September 2018 to jade.li@elsevier.com. [View journal](#)
- Aquaculture and Fisheries**
Frequency: As published. Last sent: 8 August 2018 to jade.li@elsevier.com. [View journal](#)

Each alert entry has 'Edit' and 'Delete' buttons.

Source: ScienceDirect/Elsevier

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ScienceDirect 線上操作教學 (英文)

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