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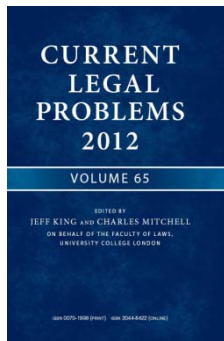


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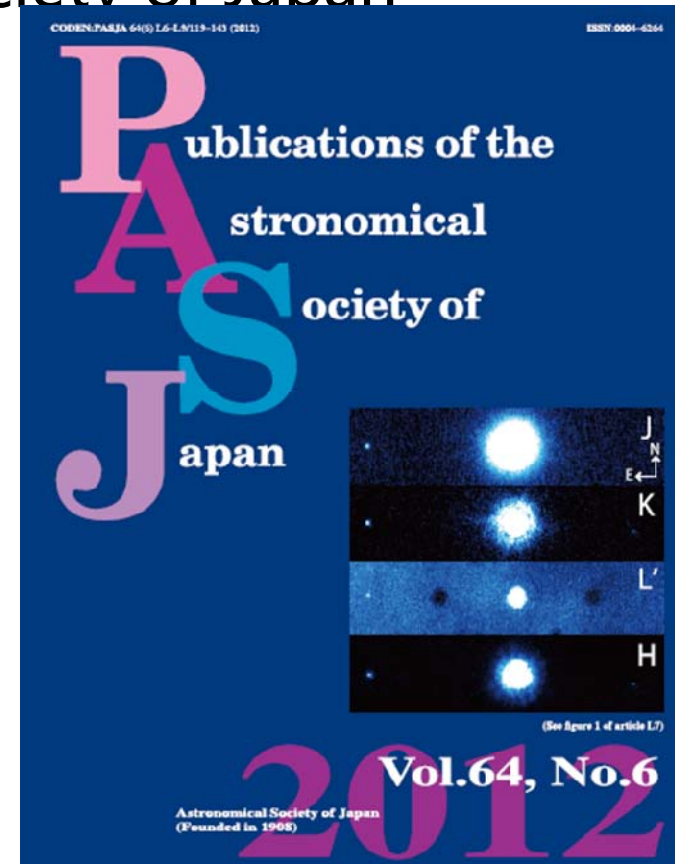
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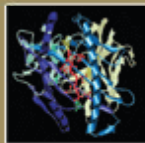
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Acupuncture for chronic low back pain in older patients: a randomized, controlled trial

C. F. Meng, D. Wang³, J. Ngeow¹, L. Lao⁴, M. Peterson² and S. Paget

+ Author Affiliations

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Received August 7, 2002. Accepted April 17, 2003.

Abstract

Objective. To determine if acupuncture is an effective, safe adjunctive treatment to standard therapy for chronic low back pain (LBP) in older patients.

Methods. The inclusion criteria for subjects were: (i) LBP ≥ 12 weeks and (ii) age ≥ 60 yr; the exclusion criteria were (i) spinal tumour, infection or fracture and (ii) associated neurological symptoms. The subjects were randomized to two groups. The control group of subjects continued their usual care as directed by their physicians, i.e. NSAIDs, muscle relaxants, paracetamol and back exercises. Subjects in the acupuncture group in addition received biweekly acupuncture with electrical stimulation for 5 weeks. Outcome was measured by the modified Roland Disability Questionnaire (RDQ) at weeks 0, 2, 6 and 9. The primary outcome measure was change in RDQ score between weeks 0 and 6.

Results. Fifty-five patients were enrolled, with eight drop-outs. Twenty-four subjects were randomized to the acupuncture group and 23 were randomized to the control group. Acupuncture subjects had a statistically

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Results. Fifty-five patients were enrolled, with eight drop-outs. Twenty-four subjects were randomized to the acupuncture group and 23 were randomized to the control group. Acupuncture subjects had a significant decrease in RDQ score of 4.1 ± 3.9 at week 6, compared with a mean decrease of 0.7 ± 2.8 in the control group ($P=0.001$). This effect was maintained for up to 4 weeks after treatment at week 9, with a decrease in RDQ of 3.5 ± 4.4 from baseline, compared with 0.43 ± 2.7 in the control group ($P=0.007$). The mean global transition score was higher in the acupuncture group, 3.7 ± 1.2 , indicating greater improvement, compared with the score in the control group, 2.5 ± 0.9 ($P<0.001$). Fewer acupuncture subjects had medication-related side-effects compared with the control group.

Conclusions. Acupuncture is an effective, safe adjunctive treatment for chronic LBP in older patients.

Key words Acupuncture, Chronic low back pain, Elderly patients, Randomized controlled trial.

Back pain is a common disorder, affecting 65–80% of the population [1] and is a major item in health-care expenditure, costing the United States \$25 billion annually [2]. Back pain is common in the elderly, with a prevalence of up to 49% of the population [3]. Patients aged 75 and over reported back pain as the third most common complaint overall and their most common musculoskeletal symptom [4]. Back pain is a prevalent, significant cause of morbidity in older patients, including depression [5], functional disability [6] and decreased quality of life [7].

Chronic, non-specific back pain refers to back pain not due to a specifically recognized disease process [8]. The literature describes inflammatory, degenerative, structural or traumatic aetiologies. Conclusive causal evidence, however, is lacking.

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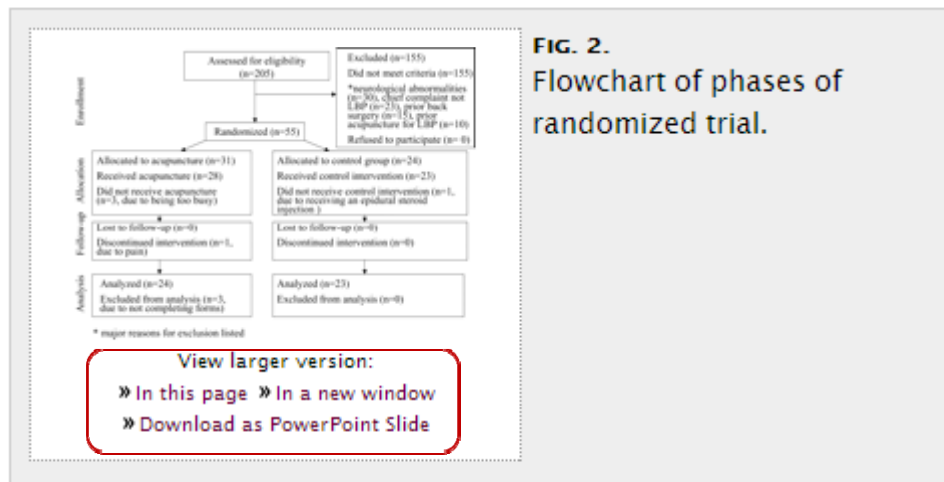


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Study population

Subjects were recruited from July 2000 until April 2001. A total of 205 subjects were screened and 55 (26.8%) were enrolled. The major reasons for exclusion from the study included the presence of associated neurological abnormalities ($n=30$, 20%), the primary complaint of pain not in the low back area ($n=23$, 15%), prior history of lumbar surgery ($n=15$, 10%), prior use of acupuncture for low back pain ($n=10$, 6%) and the presence of inflammatory arthritis ($n=10$, 6%) (Fig. 2). Other reasons for exclusion included planned lumbar surgery, the presence of a cardiac arrhythmia, having a pacemaker, the current use of anticoagulants and not being willing to be randomized.



Of the 55 subjects who enrolled in the study, 31 subjects were randomized to the acupuncture group and 24 were randomized to the control group. There were no significant differences in the demographic and clinical characteristics between the acupuncture and control groups (Table 1). Eight patients dropped out of the study. When subjects who completed the study were compared with those who dropped out, the only significant differences that emerged were in the location of back pain. More subjects who completed the study tended to be on NSAIDs than those who dropped out ($P=0.05$) (Table 1). Of the subjects who dropped out, seven were from the acupuncture group and one from the control

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Acupuncture for chronic low back pain in older patients: a randomized, controlled trial

C. F. Meng, D. Wang³, J. Ngeow¹, L. Lao⁴, M. Peterson² and S. Paget

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Received August 7, 2002. Accepted April 17, 2003.

Abstract

Objective. To determine if acupuncture is an effective, safe adjunctive treatment to standard therapy for chronic low back pain (LBP) in older patients.

Methods. The inclusion criteria for subjects were: (i) LBP ≥ 12 weeks and (ii) age ≥ 60 yr; the exclusion criteria were (i) spinal tumour, infection or fracture and (ii) associated neurological symptoms. The subjects were randomized to two groups. The control group of subjects continued their usual care as directed by their physicians, i.e. NSAIDs, muscle relaxants, paracetamol and back exercises. Subjects in the acupuncture group in addition received biweekly acupuncture with electrical stimulation for 5 weeks. Outcome was measured by the modified Roland Disability Questionnaire (RDQ) at weeks 0, 2, 6 and 9. The primary outcome measure was change in RDQ score between weeks 0 and 6.

Results. Fifty-five patients were enrolled, with eight drop-outs. Twenty-four subjects were randomized to the acupuncture group and 23 were randomized to the control group. Acupuncture subjects had a significant decrease in RDQ score of 4.1 ± 3.9 at week 6, compared with a mean decrease of 0.7 ± 2.8 in the control group ($P=0.001$). This effect was maintained for up to 4 weeks after treatment at week 9, with a decrease in RDQ of 3.5 ± 4.4 from baseline, compared with 0.43 ± 2.7 in the control group ($P=0.007$). The mean global transition score was higher in the acupuncture group, 3.7 ± 1.2 , indicating greater improvement, compared with the score in the control group, 2.5 ± 0.9 ($P<0.001$). Fewer acupuncture subjects had medication-related side-effects compared with the control group.

Conclusions. Acupuncture is an effective, safe adjunctive treatment for chronic LBP in older patients.

Key words Acupuncture, Chronic low back pain, Elderly patients, Randomized control

Back pain is a common disorder, affecting 65–80% of the population [1] and is a major item in health-care expenditure, costing the United States \$25 billion annually [2]. Back pain is common in the elderly, with a prevalence of up to 49% of the population [3]. Patients aged 75 and over reported back pain as the third most common complaint overall and their most common musculoskeletal symptom [4]. Back pain is a prevalent, significant cause of morbidity in older patients, including depression [5], functional disability [6] and decreased quality of life [7].

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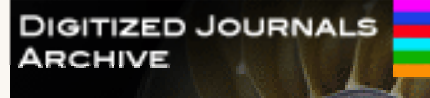
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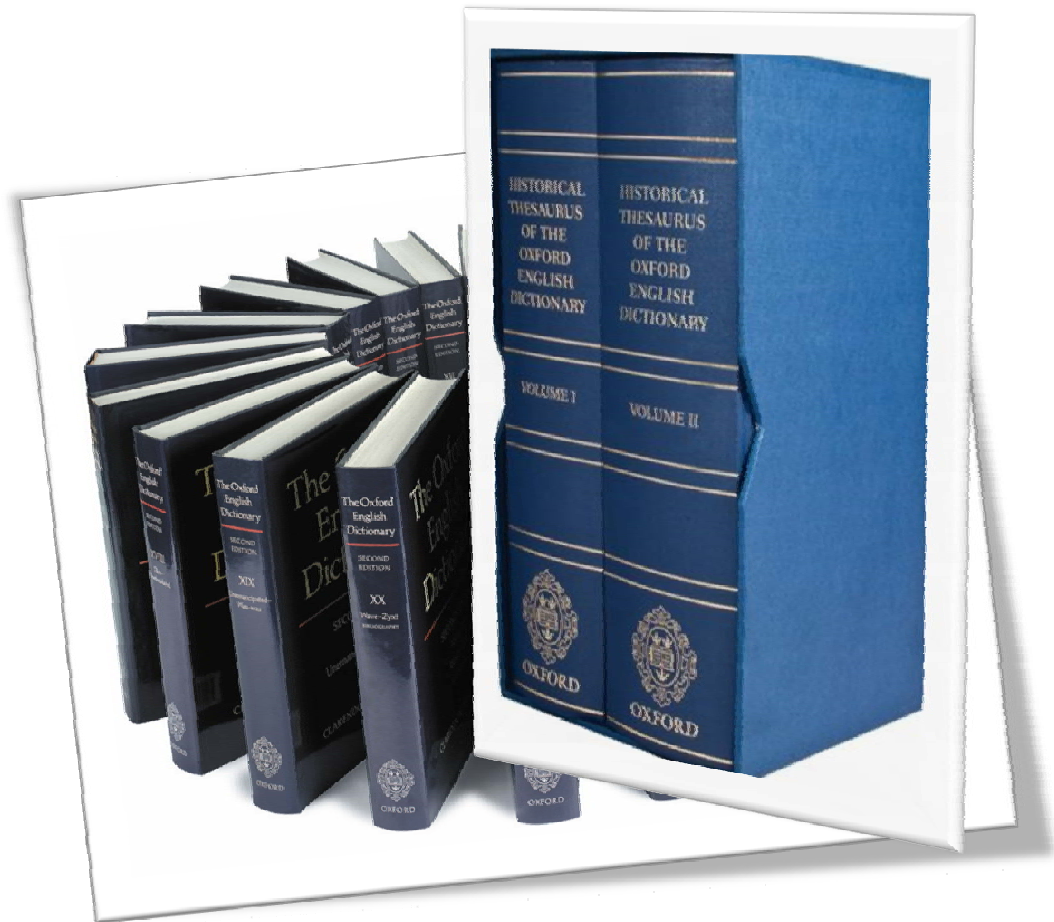
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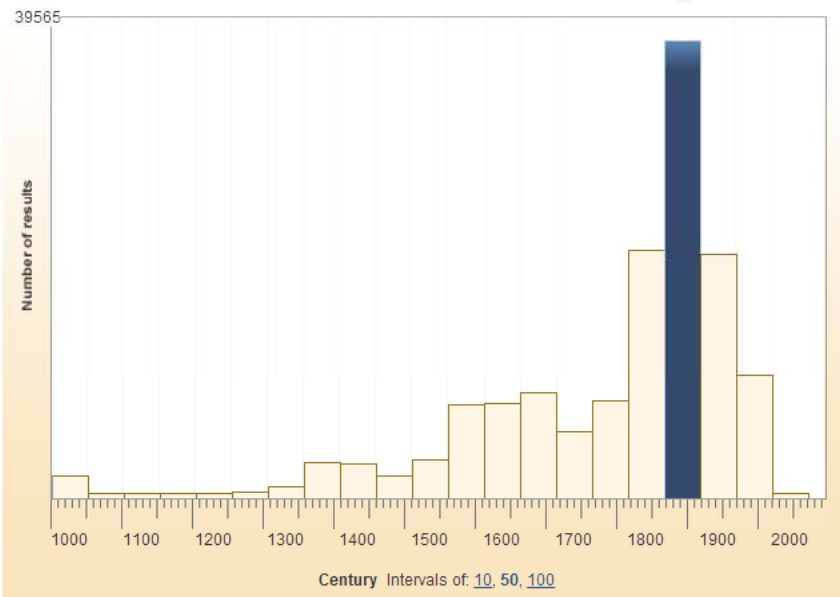


Timelines

All Subject Region Origin

View as List

Showing results for Subject > Sciences (80666)



Date range: 1850-1899

Number of results: 39565

Sample words: isocheim, protencephalon, protovermiculite, semi-bituminous, semi-volcanic

About timelines

Timelines show in graphical form the number of words first recorded by the OED within different time periods.

The **Subject**, **Region**, and **Origin** menus can be used to display timelines for different categories and subcategories. Select the **All** tab to reset the timeline.

The width of each bar represents a period of 50 years by default, but periods of 10 and 100 years can also be chosen. The height of a bar indicates the number of words first recorded in that period.

Hover over a bar to view a selection of the words it contains. Click on a bar to view the complete set of words.

[Get more help.](#)

Advanced search results

Showing 1-20 of 39565 results in 26237 entries

View as: List | [Timeline](#)

Jump to alphabetical point: GO

Sort by: Entry | **Date**

- A, n.** 1890
...*Astron.* In form **A**. In the classification system of stellar spectra: the division comprising spectra characterized by prominent Balmer hydrogen absorption lines. Also (esp. in **A-star**, ...
- A, n.** 1896
...*Chem.* In form **A**. The element argon. *disused*....
- A.C.C. in A, n.** 1876
...anodal (or anodic) contraction, contraction of a muscle to which the anode is attached when an electrical circuit is closed; an instance of this....
- AU in A, n.** 1894
...Ångström (or Ångström's) unit; cf. sense 17....
- aa, n.²** 1859
...A kind of volcanic lava with a rough, jagged surface covered with loose clinkers. Freq. *attrib.*, esp. in **aa lava**. Contrasted with *pahoehoe*....
- Aalenian, n. and adj.** 1882
...A stage at the lowest level of the Middle Jurassic, lying next below the Bajocian; the geological age corresponding to this stage....
- Aalenian, n. and adj.** 1896
...Designating this stage and age; of or relating to this stage....
- abacination, n.** 1866
...The action of blinding a person by placing red-hot irons or reflective metal plates in front of the eyes; an instance of this. Also in extended use....
- abactinal, adj.** 1857
...Designating the part or surface of an echinoderm or other radiate animal that is furthest from the mouth (as the upper side of a starfish); relating to this part; = aboral...

Your current search (senses):

Date filter x
1850-1899

Subject x
Sciences

Save
Refine search

Refine your search

Subject

Language of Origin

Region

Usage

Part of Speech

First Cited in

Search within results for:

in
Full Text GO

My entries (0)

My searches (2)

Jump to:

Entry	Date
A, n.	OE
a, adj.	?a1160
a, prep.1	OE
a, prep.2	c1275
a, conj.	?a1325
a, int.1	?c1200
a, int.2	c1440
a-, prefix1	
a-, prefix2	c1275
a-, prefix3	1673
a-, prefix4	
a-, prefix5	
a-, prefix6	
-a, suffix1	
-a, suffix2	
a, pron.	a1225
A1, adj.	1776
A2, n.	1999
aa, n.1	1430
aa, n.2	1859

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Print edition »

Quick search:

skyscraper

GO

Lost for words? | Advanced search | Help

Choose **Search** or **Browse** to explore the dictionary

Browse Dictionary

Dictionary

Browse the whole dictionary from A to Z.

Categories

Browse words by subject, usage, region, or origin.

Timelines

Discover when words entered the English language.

Sources

Explore the top 1,000 authors and works quoted in the OED.

Historical Thesaurus

A taxonomic organization of all the contents of the OED.

My entries (0)

My searches (0)

OED Appeals

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of our language

Word of the day

moider, v.

1587

trans. To confuse, perplex, bewilder; to exhaust, overcome, stupefy...

Sign up for word of the day »

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Do you have an earlier record of a word which our editors are currently researching? Take a look at our recent appeals and submit your evidence. Learn more about the history of the OED Appeals in this article by Associate Editor Peter Gilliver.

March 2014 update

What's new: Learn more about the latest revisions and new words from Head of US Dictionaries, Katherine Martin, and delve a little deeper into some of the entries that have been revised with the release notes by Deputy Chief Editors Philip Durkin and Edmund Weiner.

New article: Read about the results of our appeal for earlier evidence for Earl Grey tea.

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Recently published

embarrassment, n.

gracilization, n.

childish, adj.

justifying, adj.

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Find word in dictionary

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Choose **Search** or **Browse** to explore the dictionary

Browse Dictionary

- Dictionary**
Browse the whole dictionary from A to Z.
- Categories**
Browse words by subject, usage, region, or origin.
- Timelines**
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My searches (0)

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Recently published

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gracilization, n.

childish, adj.

justifying, adj.

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Advanced search

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Search in: **Entries** Senses Quotations

Search the text of OED entries:

Enter search in

Ar in

[+ Add row](#)

Case-sensitive Exact characters

Subject

[Browse subject »](#)

Language of Origin

[Browse origin »](#)

Region

[Browse region »](#)

Usage

[Browse usage »](#)

Turn on Hit Highlighting in entry content
Note: This feature may slow down performance

- Full Text
- Full Text
- Headword
- Lemma
- Variant Spelling
- Definition
- Etymology
- Language
- Cited Form
- Label
- Quotation
- First Quotation
- Quotation Date
- Quotation Author
- Quotation Title
- Quotation Text

Options for NEAR/NOT NEAR

Ordered

-1755, -1500, 1970-

range of years

marked as:

Obsolete

/ letter or range
ical

My entries (0)

My searches (0)

About Advanced Search

An OED entry is typically divided into a number of senses, and each of these senses will normally have numerous quotations.

The scope of a search can be changed using the **Entries**, **Senses**, and **Quotations** tabs at the top of the search panel. A search will return a list of matching entries, individual senses, or quotations depending on the tab selected.

Enter your search terms, choose your parameters, and select the **Search** button to begin.

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to the definitive record of the English language

Quick search:

Lost for Words? [Advanced search](#) [Help](#)

Dictionary

Browse the whole dictionary from A to Z.

Categories

Browse words by subject, usage, region, or origin.

Featured in December



Barge, biff, Oojah-cum-spiff: Robert McCrum on Wodehouse and English

Word stories: digital and information

English in use: Watergate and that suffix

Shapers of English: the language of genes

[More Aspects of English](#)

Advanced search

Search in: **Entries** Senses Quotations

Search the text of OED entries:

in **Etymology**



And in **Full Text**



[Remove row](#)

[+ Add row](#)

Case-sensitive Exact characters

Subject

[Browse subject »](#)

Language of Origin

Date of entry

e.g. 1750, 1750-1755, -1500, 1970-

Include entries marked as:

All Current Obsolete

Part of speech

Quick search: **GO**

[Lost for Words?](#) | [Advanced search](#) | [Help](#)

Browse:

- Dictionary
- Sources
- Categories
- Historical Thesaurus
- Timelines

[Print](#) | [Email](#)

Advanced search results

Showing 1-20 of 496 results in 496 entries

View as: [List](#) | [Timeline](#)

Jump to alphabetical point: **GO**

Sort by: [Entry](#) | [Date](#)

1. **acupuncture, n.** 1684
... + point, in quot. 1934 after Chinese xué, lit. 'hole' Alternative...
2. **'alfin | 'alphin, n.** c1440
...d originally with the Indians, Chinese, and Persians the figure and...
3. **analects, n.** 1623
...us (e.g. quot. 1861 2b) compare Chinese Lún Yǔ, the title of the book...
4. **barefoot, adj. and adv.** c1000
... is, without sugar or milk. tr. Chinese chijiaoyīshēng, chì bare + ...
5. **bento, n.** 1616
...ier as benta), perhaps Middle Chinese elements meaning 'to divide,...
6. **bing, n.²** 1702
...bing, n. 2 Chinese bing, dialect form of ming,...

Your current search (entries):

Search term **x**
chinese in Etymology

Save
Refine search

Refine your search

- Subject
- Language of Origin
- Region
- Usage
- Part of Speech
- Date of First Citation
- First Cited in

Search within results for:

in

Full Text **GO**

My entries (0)

My searches (3)

Jump to:

Entry	Date
A, n.	a1500
a, adj.	?a1180
a, prep.1	OE
a, prep.2	c1275
a, conj.	?a1325
a, int.1	?c1200
a, int.2	c1440
a-, prefix1	
a-, prefix2	c1275
a-, prefix3	1673
a-, prefix4	
a-, prefix5	
a-, prefix6	
-a, suffix1	
-a, suffix2	
aa, n.1	1430
aa, n.2	1859
aal, n.	1875
Aalenian, adj.	1896
aam, n.	c1503

- Dictionary
- Sources
- Categories
- Historical Thesaurus
- Timelines

barefoot, *adj.* and *adv.*

Text size: A A

View as: [Outline](#) | [Full entry](#)

Quotations: [Show all](#) | [Hide all](#)

Pronunciation: /'bɛəfʊt/

Forms: Rarely ME-15 **barefeet** (*pl.*). [\(Show More\)](#)

Etymology: Old English *bærfót* , early Middle English *barfot* ; compare Old Norse *berfættr* *adj.*, Low German ... [\(Show More\)](#)

With the feet bare or naked, without shoes or stockings on:

a. as *adj.*, passing (with verbs of motion) into

c1000–1870

[\(Show quotations\)](#)

[Thesaurus »](#)
[Categories »](#)

b. *adv.* Also *U.S.* in fig. use (see [quots.](#) and cf. [BARE-FOOTED *adj.* c.](#)).

?c1225–1888

[\(Show quotations\)](#)

[Thesaurus »](#)
[Categories »](#)

COMPOUNDS

[tr. Chinese *chìjiāoyīshēng* , < *chì* bare + *jiāo* foot + *yīshēng* physician], a paramedical worker with basic medical training, esp. one working in rural China.

barefoot doctor *n.*

[Thesaurus »](#)

1971–1983

[\(Show quotations\)](#)

Second edition, 1989; online version November 2010

About this entry
[Previous version](#)

In this entry:

barefoot doctor

In other dictionaries:

barefoot: quick current definition in Oxford Dictionaries Online [\[x\]](#)

bar-fot, *adj.* & *adv.* in Middle English Dictionary [\[x\]](#)

bær-fot in Dictionary of Old English [\[x\]](#)

My entries (2) ▾

My searches (3) ▾

Jump to:

Entry ▾	Date ▾
bare, v.	OE
bareback, <i>adj.</i> and <i>adv.</i>	1562
bare-backed, <i>adj.</i>	1628
Barebone's Parliamen...	1657
bareca bareka, n.	1773
bared, <i>adj.</i>	a1300
barefaced, <i>adj.</i>	1600
barefacedly, <i>adv.</i>	1684
barefacedness, n.	1702
barefoot, <i>adj.</i> and <i>adv.</i>	c1000
bare-footed, <i>adj.</i>	a1533
barége, n.	1811
barehanded, <i>adj.</i> and...	c1440
barehead, <i>adj.</i> and <i>adv.</i>	c1320
bare-headed, <i>adj.</i> an...	a1533
barehide, n.	c1450
barely, <i>adv.</i>	c950
baren, n.	1895
bareness, n.	1552
baresark, n. and <i>adv.</i>	1841

感谢大家参加今天的培训。
Thank you for your time.

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