

PubMedの使い方 (基礎編)

京都府立医科大学附属図書館

2008.11.5-6

本日の予定

PubMed基礎編	PubMed上級編
<p>1 忙しい人の基本検索 PubMedとは 検索方法 Limitsによる絞込み 検索結果の見かた 電子ジャーナルリンク 印刷・ダウンロード</p> <p>2 少し慣れてきたら Auto Term Mappingとは Details Historyを使った検索</p>	<p>1 忙しいときの検索技 Clinical Queries</p> <p>2 自分用カスタマイズの技 My NCBI、Clipboard</p> <p>3 図書館員の秘密技 MeSH タグを使った検索</p> <p>4 PubMedの最新機能 Advanced Search My Bibliography Patients Drug Information等</p>

忙しい人のための基本検索

- PubMedとは
 - NLMがインターネットで無料公開しているMEDLINE
- では、MEDLINEとは？
 - NLM(米国立医学図書館)作成の医学文献データベース。
 - 学術雑誌を中心とした4,000タイトルから1,600万件を収録
 - 医学に加え、歯学・看護学・獣医学等の論文も収録
 - 日本語の雑誌からも70タイトルほど収録。
 - 収録範囲は、1966年から現在まで。
 - MEDLINEはPubmedのほかにも有料・無料の様々な製品として提供されている(Ovid MEDLINEなど)

PubMedでできること

- インターネットで無料公開されている
- 収録内容は、MEDLINE + OLDMEDLINEで1949年から収録
- 医学文献についての情報を検索できる
 - 本文は収録されていないので、冊子体の雑誌または電子ジャーナルで読む。
 - 京都府立医大では、リンクリゾルバを經由して冊子体の所蔵情報、電子ジャーナル本文等へリンクしている

PubMedの基本

- http://www.ncbi.nlm.nih.gov/sites/entrez?otoo_l=ijpkpumlib (京都府立医大専用入口)

The screenshot shows the PubMed homepage with several key elements highlighted by red boxes and arrows:

- Query Box:** A box containing the search input field with the text "for [anisakiasis]" and the "Go" button.
- Feature Tab:** A box containing the "Limits", "Preview/Index", "History", "Clipboard", and "Details" tabs.
- My NCBI:** A box containing the "My NCBI" link and the "[Sign In] [Register]" buttons.
- Side bar:** A box containing the left-hand navigation menu, including "About Entrez", "Entrez PubMed", "PubMed Services", and "Related Resources".

The main content area includes the text: "To get started with PubMed, enter one or more search terms. Search terms may be [topics](#), [authors](#) or [journals](#)." Below this is a green box with the heading "Public Access Policy May Affect You" and the text: "Then your manuscript must be made available in PubMed Central. How? If you publish in one of [these journals](#), they will take care of the whole process. If you publish *anywhere else*, deposit the manuscript in PubMed Central via one of the options described at publicaccess.nih.gov."

At the bottom, it states: "PubMed is a service of the [U.S. National Library of Medicine](#) that includes over 18 million citations from MEDLINE and other life science journals for biomedical articles back to the 1950s. PubMed includes links to full text articles and other related resources."

キーワードによる検索

NCBI

PubMed
www.pubmed.gov

A service of the U.S. National Library of Medicine
and the National Institutes of Health

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC

Search PubMed for breast cancer drug therapy Go Clear [Advanced Search](#)

- クエリーボックスにキーワードを入力
 - 複数入力する時はスペースで区切る
 - 大文字と小文字はどちらでもOK
 - ギリシャ文字は、 alpha beta
 - 記号は、ハイフン スペース !?%\$などは省略
 - ストップワードに注意
 - and, for, of, the, toなどは入力しても無視される

著者名による検索

All Databases	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	
Search	PubMed	for	smith r			Go	Clear

- 姓 と 名のイニシャル
 - Tanaka Y
- ミドルネームはイニシャルを続ける
 - O'Regan RM
- 1999年以前は収録著者数に制限あり

雑誌名による検索

- 正式誌名

- New England Journal of Medicine

- ISSN

- 0028-4793

間のハイフンも必要

- タグを使う

- Nature[ta]

絞り込み: Limits

- 著者・雑誌名・フルテキスト

Limits Preview/Index History Clipboard* Details

Limit your search by any of the following criteria.

Search by Author

Author Name (see [help](#))

[Add Another Author](#)

All these authors
 Any of these

Search by Journal

Journal Name (Title or abbreviation)

[Add Another Journal](#)

Results will be from any of these journals.

Full Text, Free Full Text, and Abstracts

Links to full text Links to free full text Abstracts

絞り込み: Limits

■ 出版年月日・データ追加日

The screenshot shows the 'Limits' search interface. The 'Dates' section is active, and a dropdown menu is open for 'Published in the Last:'. The menu options are: Any date, 30 days, 60 days, 90 days, 180 days, 1 year, 2 years, 3 years, 5 years, 10 years, and Specify date range (YYYY/MM/DD). The 'Specify date range' option is highlighted in blue. Other sections visible include 'Full Text, Free Full Text, and Abstracts' with checkboxes for 'Links to full text', 'Links to free full text', and 'Abstracts'. There are also sections for 'Humans or Animals' and 'Languages'.

期間の指定
または
日付の指定

The screenshot shows the 'Limits' search interface with the 'Dates' section. The 'Published in the Last:' dropdown is set to 'Specify date range (YYYY/MM/DD)'. Below it, the 'Published Date' is set to '2007' in the year field, with 'to' and empty fields for month and day. A note below reads: 'Format: YYYY/MM/DD. Month and days are optional'. The 'Added to PubMed in the Last:' dropdown is set to 'Any date'.

日付の指定は
年だけでもOK

絞り込み: Limits

- 言語の指定
- サブセット
 - 雑誌の分野、トピックで絞る

Languages CLEAR

- English
- French
- German
- Italian
- Japanese
- Russian
- Spanish

More Languages

- Afrikaans
- Albanian
- ...

Subsets CLEAR

Journal Groups

- Core clinical journals
- Dental journals
- Nursing journals

Topics

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- History of Medicine

絞り込み: Limits

- 論文タイプ
- 被験者の年齢

Type of Article CLEAR

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

More Publication Types

- Addresses
- Bibliography
- ...

Ages CLEAR

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months
- Preschool Child: 2-5 years
- Child: 6-12 years
- Adolescent: 13-18 years
- Adult: 19-44 years
- Middle Aged: 45-64 years
- Middle Aged + Aged: 45+ years

Limitsの使用例

- インフルエンザ influenza
- ノイラミニダーゼ阻害薬の効果
neuraminidase

- 70歳 男性の文献への絞り込み
 - Limits: Male Aged 65+ years

検索結果の表示

[Sergiev VP, Uspenskiĭ AV, Romanenko NA, Gorokhov VV, Supriaga VG, Starkova TV, Morozov EN, Chernikova EA](#)

抄録
なし



["New and recurring" helminthiasis as a potential factor of socioepidemic complications in Russia]
Med Parazitol (Mosk). 2005 Oct-Dec;(4):6-8 **Russian**. No abstract available.
PMID: 16445229 [PubMed - indexed for MEDLINE]

記述言語(英語以外の場合)

[Marques JF, Cabral HN, Busi M, D'Amelio S.](#)

抄録
あり



Molecular identification of Anisakis species from Pleuronectiformes off the Portuguese coast.
J Helminthol. 2006 Mar;80(1):47-51. ← 略誌名, 出版年月; 巻(号); ページ
PMID: 16469172 [PubMed - indexed for MEDLINE]

[Idefonso C, Rodríguez I, Pérez-Holanda S, Fernández A, Llera JM, Mendez B, Granero J.](#)



無料EJあり

[Acute intestinal anisakiasis]
Cir Esp. 2005 Jul;78(1):59-60 **Spanish**. No abstract available.
PMID: 16420795 [PubMed - indexed for MEDLINE]

[Cho TH, Park HY, Cho S, Sohn J, Yoon YW, Cho JE, Cho SW.](#)



無料EJあり

The time course of biological and immunochemical allergy states induced by anisakis simplex larvae in rats.
Clin Exp Immunol. 2006 Feb;143(2):203-8.
PMID: 16412043 [PubMed - indexed for MEDLINE]

電子ジャーナルへのリンク

□1: [Science](#). 2008 Oct 24;322(5901):606-7.



・専用入口から入ってAbstractを表示させると、京都府立医科大学のアイコンを表示

Experiencing physical warmth promotes interpersonal

[Williams LE](#), [Bargh JA](#).

Leeds School of Business, University of
USA. lawrence.williams@colorado.edu

“Warmth” is the most powerful person
stressed the importance of warm pl

・大学で契約している電子ジャーナルがあれば、本文へのリンクを表示
・図書館蔵書検索へのリンクも表示



SFX Services for this record

Title: Experiencing physical warmth promotes interpersonal warmth.
Source: Science [0036-8075] Williams yr:2008 vol:322 iss:5901 pg:606 -7

基本サービス

フルテキスト

[Highwire Press American Association for the Advancement of Science](#) でフルテキストを見る

Year: Volume: Issue: Start Page:

[ProQuest Medical Library](#) でフルテキストを見る

Year: Volume: Issue: Start Page:

所蔵情報

[京都府立医科大学附属図書館OPAC](#) で所蔵を確認

アドバンスサービス

検索結果の表示変更・ダウンロード

The screenshot displays a search results interface with several interactive elements:

- Display:** A dropdown menu is open, showing options: Summary (selected), Brief, Abstract, AbstractPlus, Citation, MEDLINE, XML, UI List, LinkOut, ASN.1, Related Articles, Cited in Books, CancerChrom Links, Domain Links, 3D Domain Links, GEO DataSet Links, Gene Links, Gene (OMIM) Links, Gene (GeneRIF) Links, Genome Links, Project Links, GENSAT Links, and GEO Profile Links.
- Show:** A dropdown menu is open, showing options: 20 (selected), 5, 10, 20, 50, 100, 200, and 500.
- Sort By:** A dropdown menu is open, showing options: Sort By (selected), Pub Date, First Author, Last Author, Journal, and Title.
- Send to:** A dropdown menu is open, showing options: Send to (selected), Text, File, Printer, Clipboard, Collections, E-mail, RSS Feed, and Order.

The main content area shows a list of search results. The first result is titled "Echocardiography in predicting cardiac dysfunction" by "Himle T." and includes a snippet: "Echocardiography in predicting cardiac dysfunction. ...". The second result is titled "A reliable method of evaluating haemodynamic parameters" and includes a snippet: "A reliable method of evaluating haemodynamic parameters. ...". The third result is titled "Relationship between left atrial performance and left ventricular systolic function" and includes a snippet: "Relationship between left atrial performance and left ventricular systolic function. ...".

Display (表示形式) について

- Summary形式
 - 基本的な事項 著者、論題、雑誌名など
- Abstract形式
 - 抄録、電子ジャーナルへのリンクアイコン
- Abstract Plus形式
 - Abstract形式+関連文献へのリンク
- MEDLINE形式
 - 全てのデータ EndNoteへの取込時に使用

Send Toによるデータの保存

- File
 - テキストファイルとして保存する
- Clipboard
 - チェックした文献を一時的に保存する(8時間)
- Collection
 - チェックした文献を、「My NCBI」に保存する

PubMedデータの変遷

[PubMed as supplied by publisher]

雑誌出版社からデータが送られてくる

[PubMed in process]

書誌事項の確認や索引付けなどを行う

[PubMed indexed for MEDLINE]

MEDLINEデータとして登録する

[PubMed]

索引付けしないがPubMedデータとして残すもの

少し慣れてきたら Details

- PubMedがどんな検索をしたのかを見ることができる
- PubMedのAuto Term Mappingにより、検索者が入力したキーワードは、自動的に関連語を広く検索している
- MeSH (Medical Subject Headings) が使用されている



A service of the U.S. National Library of Medicine
and the National Institutes of Health

My NCBI

[\[Sign In\]](#)

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals

Search PubMed for lung cancer

Go

Clear

[Advanced Search \(beta\)](#)
[Save Search](#)

Limits

Preview/Index

History

Clipboard

Details

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorials

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation

Matcher

Batch Citation

Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI

Query Translation:

```
"lung neoplasms"[MeSH Terms] OR ("lung"[All Fields] AND  
"neoplasms"[All Fields]) OR "lung neoplasms"[All Fields] OR  
("lung"[All Fields] AND "cancer"[All Fields]) OR "lung  
cancer"[All Fields]
```

Search

URL

Result:

[165929](#)

MeSHとAuto Term Mapping

- Medical Subject Headings (医学件名標目)
- 検索を効率的にするためのシソーラス
- 1つのPubMedデータに10以上付与



Details “SARS”

The screenshot shows the NCBI PubMed website interface. At the top left is the NCBI logo. The main header features the PubMed logo and the text "A service of the U.S. National Library of Medicine and the National Institutes of Health" with the URL "www.pubmed.gov". Below the header is a navigation bar with tabs for "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", and "PMC". A search bar contains the text "Search PubMed for sars" with "Go" and "Clear" buttons. To the right of the search bar are links for "Advance" and "Save Se". Below the search bar is a row of buttons: "Limits", "Preview/Index", "History", "Clipboard", and "Details" (which is circled in red). The "Query Translation:" section shows "sars[All Fields]". Below this are "Search" and "URL" buttons. The "Result:" section displays the number "5170". On the left side, there is a vertical menu with links for "About Entrez", "Text Version", "Entrez PubMed", "Overview", "Help | FAQ", "Tutorials", "New/Noteworthy", "E-Utilities", "PubMed Services", "Journals Database", "MeSH Database", "Single Citation", "Matcher", "Batch Citation", "Clinical Queries", "Special Queries", "LinkOut", and "My NCBI".

Details “Severe Acute Respiratory Syndrome”

PubMed Nucleotide Protein Genome Structure OMIM PMC Journals

for Severe Acute Respiratory Syndrome Go Clear [Advanced Search \(beta\)](#)
[Save Search](#)

Limits Preview/Index History Clipboard **Details**

Query Translation:

```
"severe acute respiratory syndrome"[MeSH Terms] OR  
("severe"[All Fields] AND "acute"[All Fields] AND  
"respiratory"[All Fields] AND "syndrome"[All Fields]) OR  
"severe acute respiratory syndrome"[All Fields]
```

Search URL

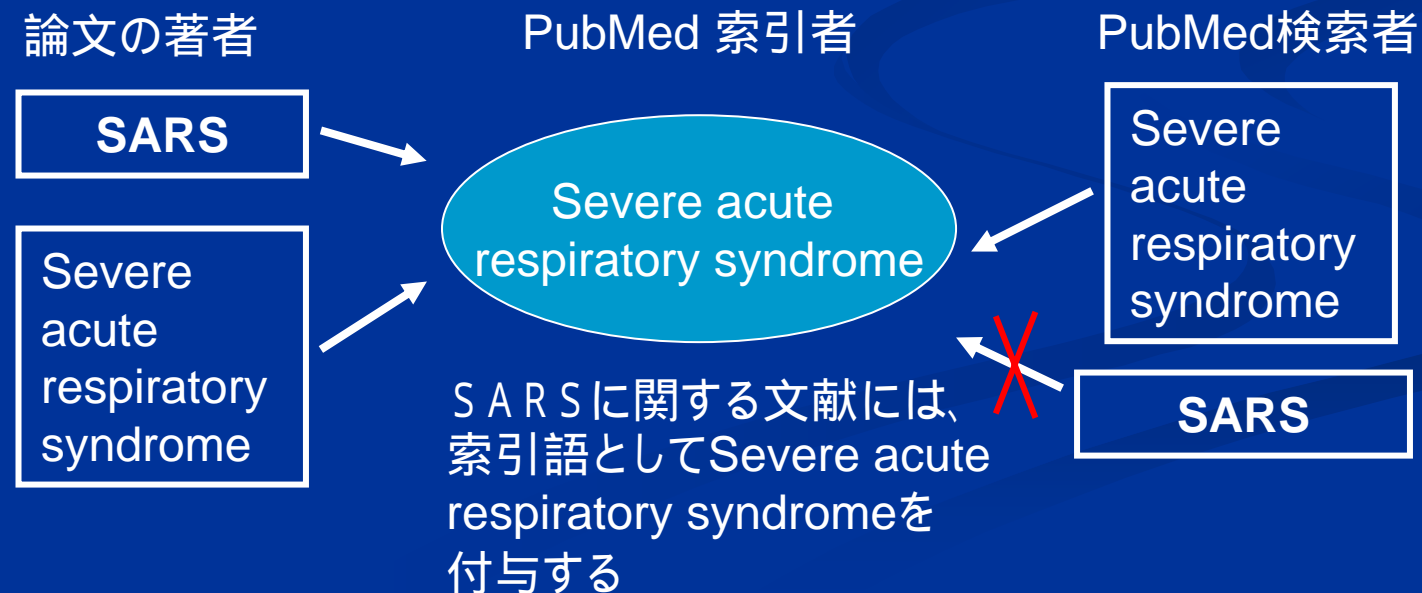
Result:
[6679](#)

Translations:

検索件数はあまり変わらないが、内容には大きな違いが！

MeSHとAuto Term Mapping

- Medical Subject Headings (医学件名標目)
- 検索を効率的にするためのシソーラス
- 1つのPubMedデータに10以上付与



トランケーション、フレーズ検索

■ トランケーション(＊)

■ 前方一致の検索

- bacter* と入力すると、bacteria, bacterium, bacteriophageなど前方一致で検索
- Infect* ではinfection controlは検索できない
- 600パターンまで検索可能

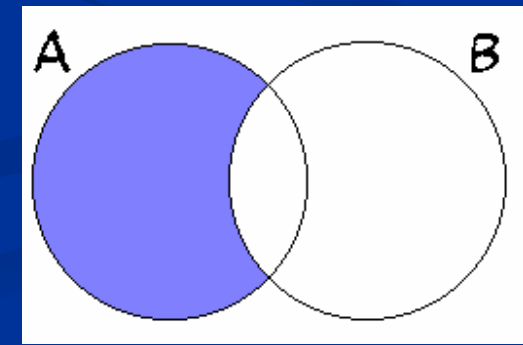
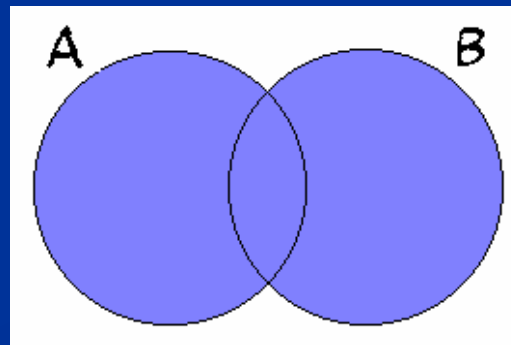
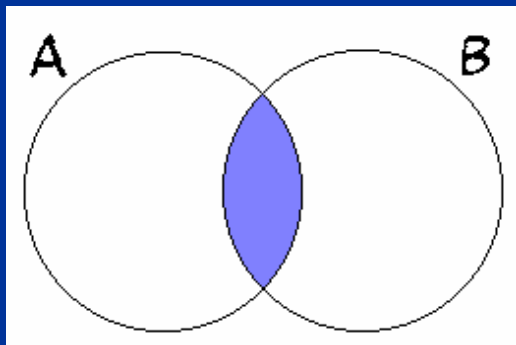
■ フレーズ検索(“ ”)

Auto Term Mappingは無効になるので注意

検索履歴を使いこなす: History

■ AND OR NOT

- AND: 検索結果AとBに共通するデータ
- OR: 複数キーワードのどれか1つ以上を含むデータ
- NOT: 検索結果Aから検索結果Bに関する文献を除いたデータ



History

■ # 1 : 高血压

NCBI PubMed A service of the U.S. National Library of Medicine and the National Institutes of Health www.pubmed.gov My NCBI [Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome **Structure** OMIM PMC Journals Books

Search PubMed for hypertension **Preview** Go Clear [Advanced Search \(beta\)](#)

Limits Preview/Index **History** Clipboard Details

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g, #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#1	Search hypertension	21:59:13	291536

Clear History

About Entrez Text Version Entrez PubMed Overview Help | FAQ Tutorials New/Noteworthy E-Utilities PubMed Services Journals Database MeSH Database Single Citation

Previewボタン

■ # 2 : 薬物療法

The screenshot shows the PubMed website interface. At the top, there is the NCBI logo and the PubMed logo with the text "A service of the U.S. National Library of Medicine and the National Institutes of Health" and the URL "www.pubmed.gov". On the right, there is a "My NCBI" section with "Sign In" and "Register" links. Below the header, there is a navigation bar with tabs for "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", "PMC", "Journals", and "Books". The search bar contains the text "PubMed" in a dropdown menu, "for drug therapy" in the input field, and buttons for "Preview", "Go", and "Clear". To the right of the search bar are links for "Advanced Search (beta)" and "Save Search". Below the search bar, there are tabs for "Limits", "Preview/Index", "History", "Clipboard", and "Details". The "History" tab is selected, showing a list of search queries. The first query is "#2 Search drug therapy" with a time of 22:02:49 and a result count of 1560329. The second query is "#1 Search hypertension" with a time of 21:59:13 and a result count of 291536. There is a "Clear History" button at the bottom of the history list. On the left side of the page, there is a sidebar with links for "About Entrez", "Text Version", "Entrez PubMed", "Overview", "Help | FAQ", "Tutorials", "New/Noteworthy", "E-Utilities", "PubMed Services", "Journals Database", "MeSH Database", "Single Citation", and "Matcher".

NCBI PubMed A service of the U.S. National Library of Medicine and the National Institutes of Health www.pubmed.gov My NCBI [Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for drug therapy Preview Go Clear [Advanced Search \(beta\)](#) [Save Search](#)

Limits Preview/Index **History** Clipboard Details

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#2	Search drug therapy	22:02:49	1560329
#1	Search hypertension	21:59:13	291536

Clear History

About Entrez
Text Version
Entrez PubMed
Overview
Help | FAQ
Tutorials
New/Noteworthy
E-Utilities
PubMed Services
Journals Database
MeSH Database
Single Citation
Matcher

AND検索

■ 高血圧×薬物療法 #1 AND #2

The screenshot shows the NCBI Entrez search interface. At the top, there are navigation tabs for various databases: All Databases, PubMed, Nucleotide, Protein, Genome, Structure, OMIM, PMC, Journals, and Books. The search bar is set to PubMed and contains the query "#1 AND #2". Below the search bar are buttons for "Preview", "Go", and "Clear", along with links for "Advanced Search (beta)" and "Save Search".

On the left side, there is a sidebar with links for "About Entrez", "Text Version", "Entrez PubMed", "Overview", "Help | FAQ", "Tutorials", "New/Noteworthy", "E-Utilities", "PubMed Services", "Journals Database", "MeSH Database", "Single Citation", "Matcher", "Batch Citation Matcher", and "Clinical Queries".

The main content area shows a "History" tab selected. Below it, there are instructions for using the search history:

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g, #2 AND #3 or click query # for more options.

Below the instructions is a table titled "Most Recent Queries" with the following data:

Search	Most Recent Queries	Time	Result
#3	Search #1 AND #2	22:05:14	72919
#2	Search drug therapy	22:02:49	1560329
#1	Search hypertension	21:59:13	291536

At the bottom of the history section, there is a "Clear History" button.

NOT検索

■ 高血圧一薬物療法 #1 NOT #2

The screenshot shows the PubMed search interface. At the top, there are navigation tabs for various databases: All Databases, PubMed, Nucleotide, Protein, Genome, Structure, OMIM, PMC, Journals, and Books. The search bar contains the text "#1 NOT #2" and has buttons for "Preview", "Go", and "Clear". There are also links for "Advanced Search (beta)" and "Save Search".

Below the search bar, there are tabs for "Limits", "Preview/Index", "History", "Clipboard", and "Details". The "History" tab is selected, showing a list of search queries with their respective times and result counts.

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#3	Search #1 NOT #2	22:07:22	218617
#2	Search drug therapy	22:07:09	1560329
#1	Search hypertension	22:06:55	291536

At the bottom of the history section, there is a "Clear History" button.

演習

1. うつ病 (depression) と薬物療法 (drug therapy) に関する文献で、最新3年分のもの。看護関係の雑誌に掲載された論文に絞りたい。
2. アトピー性皮膚炎 (atopic dermatitis) の食事療法 (diet therapy) に関する文献で、京都府立医大で電子ジャーナルを見られるもの。