

特定非営利活動法人
日本医学図書館協会

JMLA E-ラーニング文献検索講座④

PubMedの検索（基礎編）

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JMLA E-ラーニング文献検索講座④ PubMedの検索 基礎編

コンテンツ

- PubMedとは
- 基本的な検索
- 検索結果のアウトプット
- Advanced Search

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この動画は以上の内容でお送りいたします。

PubMedとは

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PubMedとは

PubMedとは

- 米国国立医学図書館（NLM）作成
- 医学関連分野最大の文献データベース
- データ更新：毎日
- データ数：3,000万件以上
- 利用費用：無料
- 論文の書誌情報+アルファが収録されている

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PubMedとは、米国国立医学図書館 NLM が作成・提供する 医学関連分野 最大の文献データベースです。

データは日々更新されており、データ数は現在3,000万件以上となっています。 利用費用は無料。

インターネットに接続されたデバイスから、世界中どこでも誰でも利用が可能です。

PubMedでは論文の書誌情報だけでなく、シソーラス用語や、被引用文献、 電子ジャーナルのフルテキストなどの付加情報も見ることができます。

アクセス方法

- webブラウザで「pubmed」と入力して検索

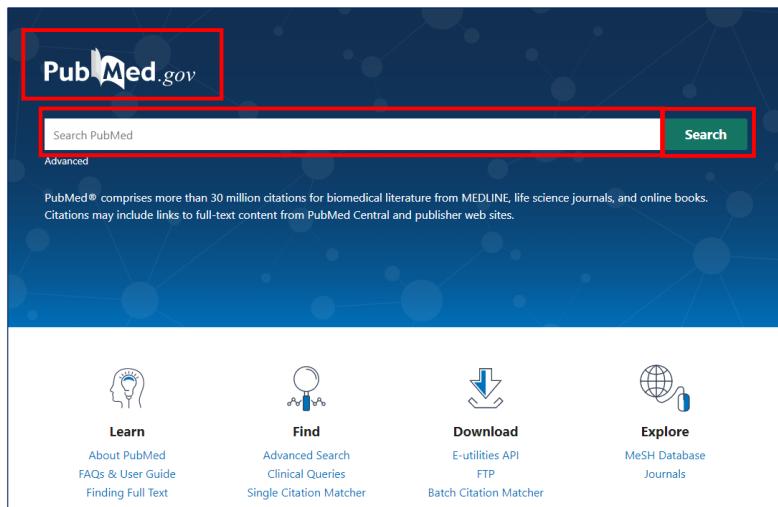
<https://pubmed.ncbi.nlm.nih.gov/>



PubMedは、Google Chromeなどのwebブラウザで「pubmed」と入力、検索するとヒットします。

所属機関のホームページにリンクが張られている場合もありますので、確認するとよいでしょう。

トップページ



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トップページはこちらです。

search boxに検索語を入れてSearchをクリックすると検索できます。

上部のアイコンはこのPubMedトップページへのリンクボタンです。

PubMed内の複数のレイアウトに表示されるアイコンですので、覚えておくとよいでしょう。

基本的な検索

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基本的な検索

入力ルール

大文字・小文字の区別はない	INFANT Infant infant
フレーズはダブルクオーテーションで囲む	“liver transplantation” “Hepatitis E”
前方一致検索するには語尾に*をつける	child* → child children childhood . . .
著者名は姓（フル）+名（イニシャル）+ ミドルネーム（イニシャル）	Starzl TE nakayama yoshimi



主な入力ルールはごらんのとおりです。

検索語は半角英数で入力します。

大文字・小文字の区別はありません。

肝移植 liver transplantationなど、フレーズで検索したい場合には検索語をダブルクオーテーションで囲みます。

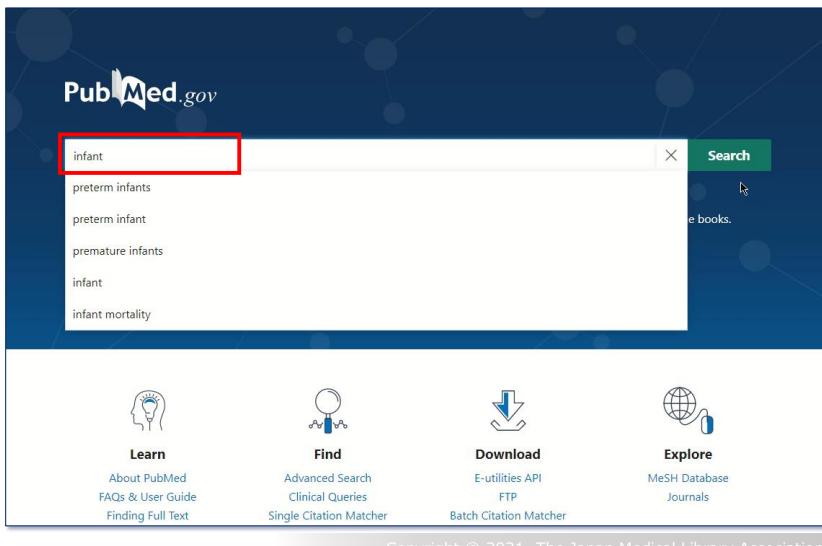
また、語尾にアスタリスクをつけると前方一致検索されます。

この2点はノイズや検索漏れを減らすためのテクニックの一つですが、反面、シソーラス用語であるMeSHが自動マッピングされないというデメリットもあります。

著者名は、姓、名、ミドルネームの順に、姓をフルで、名とミドルネームをイニシャルで入力します。

尚、2002年以降に出版された論文に関しては nakayama yoshimi など、フルネームでの検索が可能です。

1wordで検索



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では実際に画面を見ながらご説明していきましょう。

まずは乳児に関する論文を検索してみます。

search boxに「infant」と入力し始めると、オートコンプリート機能が働いて候補語が表示されます。

それらの中に該当する検索語があれば、すべてを入力する手間を省くことができます。

「Search」をクリックすると検索結果画面に遷移します。

2wordsで検索

The screenshot shows the PubMed search interface with the query 'breast milk' entered in the search bar. The results page displays 47,317 entries. The first result is a review titled 'Human breast milk: A review on its composition and bioactivity.' by Andreas NJ Kampmann B, Mehring Le-Doare K. from Early Hum Dev. 2015 Nov;91(11):629-35. doi: 10.1016/j.earlhumdev.2015.08.013. PMID: 26375355. The second result is 'Immunology of breast milk' by Palmeira P, Carneiro-Sampaio M. from Rev Assoc Med Bras (1992). 2016 Sep;62(6):584-593. doi: 10.1590/1806-9282.62.06.584. PMID: 27849237. The third result is 'Cells of human breast milk' by Witkowska-Zimny M, Kaminska-Et-Hassan E. from Cell Mol Biol Lett. 2017 Jul 13;22:11. doi: 10.1186/s11658-017-0042-4. eCollection 2017. PMID: 28717367. The fourth result is 'Breast Milk, a Source of Beneficial Microbes and Associated Benefits for Infant Health' by Lyons KE, Ruan CA, Demerle EM, Rose RR, Stanton C.

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検索結果画面でもトップページ同様にsearch boxに入力して検索します。
2wordsで検索してみましょう。

単語と単語の間にスペースを入れて入力します。

ここでは母乳を意味する「breast milk」で検索してみます。

候補語の中から選択した場合はSearchボタンを押す必要はありません。

フレーズで検索

The screenshot shows the PubMed.gov search interface. The search term 'breast milk' is highlighted in a red box in the search bar. The results page displays 14,030 results. On the left, there are filters for 'RESULTS BY YEAR' (with a histogram from 1858 to 2021), 'TEXT AVAILABILITY' (Abstract, Free full text, Full text), 'ARTICLE ATTRIBUTE' (Associated data), and 'ARTICLE TYPE' (Books and Documents). The main results list includes:

- Breast milk and infection.**
1 Lawrence RM, Lawrence RA.
Cite Clin Perinatol. 2004 Sep;31(3):501-28. doi: 10.1016/j.clp.2004.03.019.
PMID: 15325555 Free PMC article. Review.
- Breast Milk Jaundice.**
2 Bratton S, Cantu RM, Stern M.
Cite 2020 Nov 18. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-. PMID: 30726019 Free Books & Documents. Review.
- Cells of human breast milk.**
3 Witkowska-Zimny M, Kaminska-Er-Hassan E.
Cite Cell Mol Biol Lett. 2017 Jul 13;22:11. doi: 10.1186/s11658-017-0042-4. eCollection 2017.
PMID: 28717367 Free PMC article. Review.
- Breast milk, microbiota, and intestinal immune homeostasis.**
4 Walker WA, Iyengar RS.
Cite Pediatr Res. 2015 Jan;77(1 Pt 2):220-8. doi: 10.1038/pr.2014.160. Epub 2014 Oct 13.

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「breast milk」をフレーズで検索したい場合は、前後をダブルクオーテーションで囲みます。

これにより「breast milk」のフレーズが含まれる文献のみがヒットします。

PMIDで検索

The screenshot shows the PubMed search results for the PMID 8474804. The search bar at the top contains the text "8474804". Below the search bar, there are buttons for "Advanced", "Create alert", and "Create RSS". On the right side of the header, there are "Search" and "User Guide" buttons. The main content area displays the following information:

- Found 1 result for 8474804
- Save, Email, Send to, Display options buttons
- Pediatrics, 1993 May;91(5):867-72.
- Exclusive breast-feeding for at least 4 months protects against otitis media**
- B Duncan¹, J Ey, C J Holberg, A L Wright, F D Martinez, LM Taussig
- Affiliations + expand
- PMID: 8474804
- Abstract**
- Objective:** This study was designed to assess the relation of exclusive breast-feeding, independent of recognized risk factors, to acute and recurrent otitis media in the first 12 months of life.
- Methods:** Records of 1220 infants who used a health maintenance organization and who were followed during their first year of life as part of the Tucson Children's Respiratory Study were reviewed. Detailed prospective information about the duration and exclusiveness of breast-feeding was obtained, as was information relative to potential risk factors (socioeconomic status, gender, number of siblings, use of day care, maternal smoking, and family history of allergy). Acute otitis
- FULL TEXT LINKS: PEDIATRICS FINAL VERSION
- ACTIONS: Cite, Favorites
- SHARE: Twitter, Facebook, Email icons
- PAGE NAVIGATION: Title & authors, Abstract

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PubMedの文献番号であるPMIDでも検索できます。
番号をsearch boxに入れるだけで該当の論文がヒットします。

画面構成 Summary Format

The screenshot shows the PubMed search results for the term "infant". The search bar at the top contains "infant". Below the search bar are buttons for "Save", "Email", and "Send to". To the right are "User Guide" and "Display options" buttons. The results are sorted by "Best match". A red box highlights the first two results:

- 1. Breastfeeding Challenges and the Preterm Mother-**Infant** Dyad: A Conceptual Model.
Cite
Lau C.
Breastfeed Med. 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19.
PMID: 29048210 [Free PMC article.](#) Review.
- 2. Cue-based feeding in the NICU: using the **infant's** communication as a guide.
Cite
Shaker CS.
Neonatal Netw. 2013 Nov-Dec;32(6):404-8. doi: 10.1891/0730-0832.32.6.404.
PMID: 24195800

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次に画面構成についてご説明しましょう。

こちらのページは、Summary formatと呼ばれる検索結果の簡易表示画面です。

検索結果件数はこちら。

その下に検索結果が表示されています。

個々のデータ

PubMed.gov

Search term: infant

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Best match Display options

MY NCBI FILTERS RESULTS BY YEAR TEXT AVAILABILITY

RESULTS BY YEAR: 1,274,030 results

1790 2021

1. **Breastfeeding Challenges and the Preterm Mother-**Infant** Dyad: A Conceptual Model.**
Lau C.
Breastfeed Med. 2018 Jan/Feb; 13(1):8-17 doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19.
PMID: 29048210 Free PMC article. Review.

2. **Cue-based feeding in the NICU: using the **infant's** communication as a guide.**
Shaker CS.
Neonatal Netw. 2013 Nov-Dec;32(6):404-8. doi: 10.1891/0730-0832.32.6.404.
PMID: 24195800

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個々のデータには最初に論文タイトル、次に著者名、雑誌名、出版年月、巻号ページ、そしてPMIDなどが記載されています。

英語以外の言語

1 year
 5 years
 10 years
 Custom Range

Maternal and infant sleep postpartum.
6 McGuire E.
Cite Breastfeed Rev. 2013 Jul;21(2):38-41.
PMID: 23957180 Review.
Share

[Role of rhythmicity in infant development].
7 Ciccone A.
Cite Encephale. 2015 Sep;41(4 Suppl 1):S15-21. doi: 10.1016/S0013-7006(15)30002-6.
PMID: 26746318 Review. French.
Share

[Premature infant's nutrition--feeding strategies].
8 Riskin A, Bader D.
Cite Harefuah. 2004 Jan;143(1):60-6, 84, 83.
PMID: 14748291 Review. Hebrew.
Share

Facilitating infant adaptation: the nursery environment.
9 Warren I.
Cite Semin Neonatol. 2002 Dec;7(6):459-67. doi: 10.1053/siny.2002.0151.

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論文タイトルが角カッコで囲われているのは、英語以外の言語で書かれた論文です。

何の言語かはこちらに記載されています。

これはフランス語ですね。

Display options

The screenshot shows the PubMed search results for the term "infant". The search bar at the top contains "infant". Below it are buttons for "Advanced", "Create alert", and "Create RSS". On the right are links for "User Guide" and "Search". A red box highlights the "Display options" button in the top right corner of the search results area. The results section shows a summary of 1,274,030 results. To the left, there are filters for "MY NCBI FILTERS", "RESULTS BY YEAR" (with a timeline from 1790 to 2021), "TEXT AVAILABILITY" (Abstract, Free full text, Full text), "ARTICLE ATTRIBUTE" (Associated data), and "ARTICLE TYPE" (Books and Documents). The main results list includes four entries:

- 1. Breastfeeding Challenges and the Preterm Model. Lau C. *Breastfeed Med.* 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm. PMID: 29048210 [Free PMC article.](#) Review.
- 2. Cue-based feeding in the NICU: using the infant's communication as a guide. Shaker CS. *Neonatal Netw.* 2013 Nov-Dec;32(6):404-8. doi: 10.1891/0730-0832.32.6.404. PMID: 24195800
- 3. Addressing parents' concerns: do multiple vaccines overwhelm or weaken the infant's immune system? Offit PA, Quarles J, Gerber MA, Hackett CJ, Marcus EK, Kollman TR, Gellin BG, Landry S. *Pediatrics.* 2002 Jan;109(1):124-9. doi: 10.1542/peds.109.1.124. PMID: 11773551 Review.
- 4. The infant patient. McCulloch DL.

On the right, the "DISPLAY OPTIONS" panel is visible, containing settings for "Format" (Summary), "Sort by" (Best match), "Per page" (10), and "Show snippets" (checkbox checked).

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検索結果画面の初期設定は

FormatがSummary、ソート順がBest match、そして1ページの表示件数が10件ですが、Display optionsで変更できます。

また、「Show Snippets」にチェックが入っていると、各論文の抄録のうち、検索語に関連した部分が表示されます。

Formatの変更方法①

PubMed.gov

infant

Advanced Create alert Create RSS

Save Email Send to

Sorted by: Best match Display options

MY NCBI FILTERS [x]

RESULTS BY YEAR

1790 2021

1.274,030 results

1. Breastfeeding Challenges and the Preterm Model.
Lau C.
Breastfeed Med. 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm. PMID: 29048210 Free PMC article. Review.

Breastfeeding is an experience that only a mother and her infant share. Infants who breastfeed from the breast receive not only the best nutrition but also, due to the close physical contact between mother and child, it is the optimal nurturance they can ...

2. Cue-based feeding in the NICU: using the infant's communication as a guide.
Shaker CS.
Neonatal Netw. 2013 Nov-Dec;32(6):404-8. doi: 10.1891/0730-0832.32.6.404. PMID: 24195800

The feeding relationship and the infant's communication about the experience of feeding may not be nurtured. This article will explain the central role of the preterm infant's communication in successful cue-based feeding. When the infant is per ...

3. Addressing parents' concerns: do multiple vaccines overwhelm or weaken the infant's immune system?
Offit PA, Quarles J, Gerber MA, Hackett CJ, Marcus F, Kollman TR, Gellin BG, Landry S.

TEXT AVAILABILITY

ARTICLE ATTRIBUTE

ARTICLE TYPE

DISPLAY OPTIONS

Format Summary Abstract PubMed PMID

Sort by Summary Abstract PubMed PMID

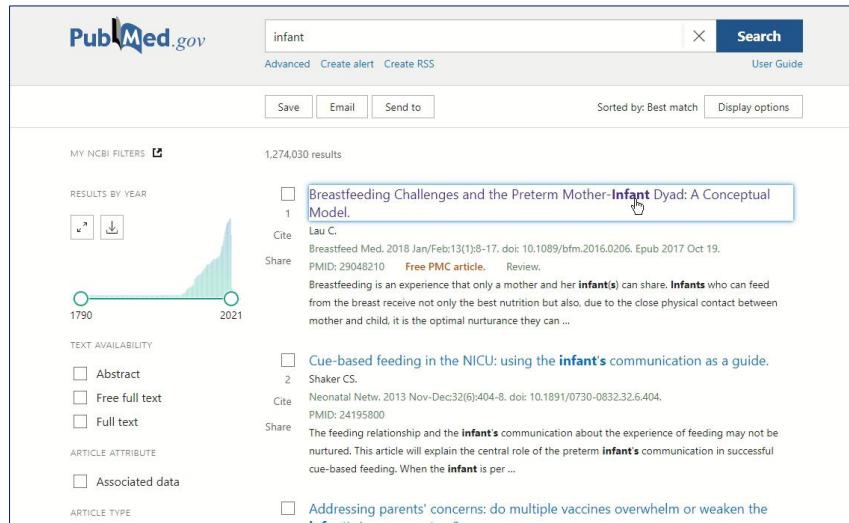
Per page Show snippets

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FormatをAbstractに変更すると検索結果すべてが詳細表示になります。

Formatの変更方法②



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また、論文タイトルをクリックすればその論文のみが詳細表示になります。

画面構成 Abstract Format

Review > Breastfeed Med Jan/Feb 2018; 3(1):3-11 doi: 10.1089/bfmr.2016.0206.
Epub 2017 Oct 19.

Breastfeeding Challenges and the Preterm Mother-
Infant Dyad: A Conceptual Model

Chantal Lau 1

Affiliations + expand

PMID: 29048210 PMCID: PMC5770126 DOI: 10.1089/bfmr.2016.0206
Free PMC article

Abstract

Breastfeeding is an experience that only a mother and her infant(s) can share. Infants who can feed from the breast receive not only the best nutrition but also, due to the close physical contact between mother and child, it is the optimal nurturance they can receive from their mother. When breastfeeding is trouble free, maternal well-being is uniquely heightened. However, breastfeeding remains a challenge for many mother-infant dyads and more so for those whose infants are born prematurely. This article introduces a conceptual model of the breastfeeding challenges facing preterm mother-infant dyads. It distinguishes between a maternal caregiving and an infant growth/development

FULL TEXT LINKS
Mary Ann Liebert
PMC FREE Full text

ACTIONS
Cite
Favorites

SHARE
Twitter Facebook Email

PAGE NAVIGATION
Title & authors
Abstract

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こちらがAbstract Formatの画面です。

上から、Article type、雑誌名、出版月と出版年、巻号ページ、論文タイトル、著者名となります。

著者の所属機関や論文の抄録であるAbstract、FULL-TEXT LINKSなど、Summary形式では表示されなかった付加情報が表示されます。

Filter

The screenshot shows the PubMed search results for the term "infant". The search bar at the top contains "infant". Below it are buttons for "Save", "Email", and "Send to". To the right are "User Guide" and "Display options". The results are sorted by "Best match". A sidebar on the left, titled "MY NCBI FILTERS", includes a "RESULTS BY YEAR" section with a timeline from 1790 to 2021. This section is highlighted with a red box. Below it are "TEXT AVAILABILITY" and "Abstract" filter options. The main results area shows 1,274,030 results. Two articles are listed:

- 1 Breastfeeding Challenges and the Preterm Mother-**Infant** Dyad: A Conceptual Model.
Cite Lau C.
Share [Breastfeed Med. 2018 Jan/Feb;13\(1\):8-17. doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19. PMID: 29048210 Free PMC article.](#) Review.
- 2 Cue-based feeding in the NICU: using the **infant's** communication as a guide.
Cite Shaker CS.
Share [Neonatal Netw. 2013 Nov-Dec;32\(6\):404-8. doi: 10.1891/0730-0832.32.6.404. PMID: 24195800](#)

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次にFilterについてご説明しましょう。

PubMedの画面は左側に「Filter」のサイドバーがあり、ここから検索結果の絞り込みができます。

一番上には検索結果を出版年でグラフにした「Results by year」があります。このグラフでは、年の部分のマルをマウスでクリック＆ドラッグすることで出版年の絞り込みができるほか、年ごとに見た論文数のダウンロードが可能です。

Filterの実行と解除

The screenshot shows the PubMed search results for the term 'infant'. The search bar at the top contains 'infant'. Below the search bar are buttons for 'Advanced', 'Create alert', 'Create RSS', 'Search', 'Save', 'Email', and 'Send to'. The results are sorted by 'Best match'.

On the left, there is a sidebar titled 'MY NCBI FILTERS' with a 'Clear' button. It includes sections for 'RESULTS BY YEAR' (2016-2021), 'TEXT AVAILABILITY' (Abstract, Free full text checked, Full text, Associated data), 'ARTICLE ATTRIBUTE' (Associated data), and 'ARTICLE TYPE' (Books and Documents).

The main results area shows 83,308 results. A yellow box highlights the 'Filters applied: Free full text, in the last 5 years' message, with a 'Clear all' link next to it. The results list includes:

- 1 Breastfeeding Challenges and the Preterm Mother-**Infant** Dyad: A Conceptual Model.
Cite Lau C. Breastfeed Med. 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19. PMID: 29048210 Free PMC article. Review.
- 2 Optimizing nutrition of the preterm **infant**.
Cite Hay WW. Zhongguo Dang Dai Er Ke Za Zhi. 2017 Jan;19(1):1-21. doi: 10.7499/j.issn.1008-8830.2017.01.001. PMID: 28100316 Free PMC article. Review.
- 3 Infant pacifiers for reduction in risk of sudden **infant** death syndrome.

At the bottom right of the results area is a copyright notice: 'Copyright © 2021. The Japan Medical Library Association. All Rights Reserved.' and the JMLA logo.

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「infant」の検索結果を Free full text かつ 最近5年以内で絞り込んでみましょう。

text availabilityの「Free full text」をチェック、publication dateの「5years」をチェックします。

「Filters applied」とトップに表示され、絞り込みが完了しました。

Filterは解除するまで有効です。

その後の検索に影響しますので、注意が必要になります。

Filterを解除するには、「Clear all」で全解除するか、サイドバーのチェックをもう一度クリックします。

Additional filters

The screenshot shows a research article abstract page. On the left, there is a sidebar with filtering options: 'ARTICLE ATTRIBUTE' (Associated data), 'ARTICLE TYPE' (Books and Documents, Clinical Trial, Comparative Study, Meta-Analysis, Randomized Controlled Trial, Review, Systematic Review), 'PUBLICATION DATE' (1 year, 5 years, 10 years, Custom Range), and a 'Reset all filters' button. A red box highlights the 'Additional filters' button, which is located below the publication date section. To the right of the sidebar is the 'Abstract' section, which contains a detailed description of the study's purpose and methodology. Below the abstract are 'Keywords', 'Conflict of interest statement', citation information ('Cited by 6 articles'), and figure counts ('2 figures'). At the bottom of the sidebar is a 'SUPPLEMENTARY INFO' section.

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サイドバーにはよく利用されるFilterがデフォルトで表示されていますが、例えば「言語」など、それ以外にもFilterがあり「Additional filters」から追加表示できます。

英語と日本語の言語Filterを設定してみましょう。

LANGUAGEをクリックし、EnglishとJapaneseをチェックします。

「Show」をクリックします。

サイドバーにLANGUAGEが表示されました。

これにチェックを入れれば、その言語で書かれた論文に絞り込むことができます。

検索結果のアウトプット

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検索結果のアウトプット

Save / Email / Send to

The screenshot shows the PubMed search results for the term 'infant'. At the top, there is a search bar with 'infant' and a 'Search' button. Below the search bar are links for 'Advanced', 'Create alert', 'Create RSS', and 'User Guide'. A red box highlights the 'Save', 'Email', and 'Send to' buttons in the top right corner of the search results area. The results are sorted by 'Best match'. On the left, there are filters for 'MY NCBI FILTERS', 'RESULTS BY YEAR' (with a timeline from 1790 to 2021), and 'TEXT AVAILABILITY'. The main results list includes two entries:

- 1. Breastfeeding Challenges and the Preterm Mother-**Infant** Dyad: A Conceptual Model.
Cite Lau C.
Share
Breastfeed Med. 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19.
PMID: 29048210 [Free PMC article.](#) Review.
- 2. Cue-based feeding in the NICU: using the **infant's** communication as a guide.
Cite Shaker CS.
Share
Neonatal Netw. 2013 Nov-Dec;32(6):404-8. doi: 10.1891/0730-0832.32.6.404.
PMID: 24195800

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画面のこちらから検索結果をアウトプットできます。
ファイル保存するには「Save」、メール送信するには「Email」、そして
「Send to」からはClipboardに保存することができます。
Clipboardとはメモ帳代わりに使用できる機能です。
気になる論文を一時保存しておき、後でまとめて確認すると便利です。

Clipboardに保存

The screenshot shows the PubMed search results for the term "infant". The search bar at the top contains "infant". Below the search bar are buttons for "Save", "Email", and "Send to". A dropdown menu is open over the "Send to" button, showing options: "Clipboard" (which is highlighted with a cursor icon), "My Bibliography", "Collections", and "Citation manager". To the right of the dropdown, there is a link to "Clear selection". The main search results area shows a histogram of results by year from 1790 to 2021, with a count of 1,274,030 results. Below the histogram, there are filters for "TEXT AVAILABILITY": "Abstract" (unchecked) and "Full Text Available" (checked). Two specific articles are listed in the results:

- 1. **Breastfeeding is an experience that only a mother and her infant(s) can share. Infants who can feed from the breast receive not only the best nutrition but also, due to the close physical contact between mother and child, it is the optimal nurturance they can ...**
Author: Shaker CS.
Published in: Breastfeed Rev;13(1):8-17. doi: 10.1089/bfrm.2016.0206. Epub 2017 Oct 19.
- 2. **Cue-based feeding in the NICU: using the infant's communication as a guide.**
Author: Shaker CS.

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Clipboardに保存してみましょう。

チェックを入れて「Send to」から「Clipboard」を選択します。

Clipboard

The screenshot shows the PubMed.gov search interface. At the top, there is a search bar with the placeholder "Search PubMed" and a "Search" button. Below the search bar are links for "Advanced" and "User Guide". Underneath the search bar are buttons for "Save", "Email", and "Send to". To the right of these buttons are "Sorted by: Order added" and "Display options". A red box highlights the "Clipboard" section. This section displays "Clipboard 2 results" and lists one result: "1. PMID: 29048210 Breastfeeding Challenges and the Preterm Mother-Infant Dyad: A Conceptual Model. Lau C. Breastfeed Med. 2018 Jan/Feb;13(1):8-17. doi: 10.1089/bfm.2016.0206. Epub 2017 Oct 19. PMID: 29048210 Free PMC article. Review." Below this result are links for "Remove from clipboard", "Cite", and "Share". A second result, "2. PMID: 24195800", is partially visible at the bottom of the clipboard list.

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search boxの下に「Clipboard」の表示が追加されました。
カッコの中の数字はClipboard内の件数を表しています。
「Clipboard」をクリックすると内容が表示されます。
Clipboardには500件まで保存可能です。
データはブラウザのCookieに保存され、8時間操作がないと削除されます。
ここからファイル保存やメール送信することも可能です。

Advanced Search



Advanced Search

Advanced Searchにアクセス

The screenshot shows the PubMed.gov search interface. The search term "breast milk" is entered in the search bar. Below the search bar, there are buttons for "Advanced", "Create alert", and "Create RSS". The "Advanced" button is highlighted with a red box. To the right of these buttons are "User Guide" and "Search" buttons. Below the search bar, there are buttons for "Save", "Email", and "Send to". The results are sorted by "Best match". A "Display options" button is also present. On the left, there are filters for "MY NCBI FILTERS" and "RESULTS BY YEAR" (with a timeline from 1858 to 2021). The main results area shows 14,030 results. Two articles are listed:

- 1. **Breast milk and infection.**
Lawrence RM, Lawrence RA.
Clin Perinatol. 2004 Sep;31(3):501-28. doi: 10.1016/j.clp.2004.03.019.
PMID: 15325535 [Free PMC article.](#) Review.
- 2. **Breast Milk Jaundice.**
Bratton S, Cantu RM, Stern M.
2020 Nov 18. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-.
PMID: 30726019 [Free Books & Documents.](#) Review.

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次に、一歩進んだ検索が可能な「Advanced Search」についてご説明しましょう。

search boxの下の「Advanced」をクリックすると画面が遷移します。

画面構成 Advanced Search

PubMed Advanced Search Builder

Add terms to the query box

All Fields Enter a search term ADD Show Index

Query box

Enter / edit your search query here Search

History and Search Details

Search	Actions	Details	Query	Results	Time
#3	...	>	Search: "breast milk"	14,030	00:58:42
#2	...	>	Search: breast milk	47,317	00:57:21
#1	...	>	Search: infant	1,274,030	00:30:20

Showing 1 to 3 of 3 entries

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Advanced Search の画面構成です。

上部が「PubMed Advanced Search Builder」

下部が「History and Search Details」となっています。

Advanced Searchでは、今まで行った検索の履歴と生成された検索式の詳細が確認できるほか、検索フィールドを指定した検索や、検索履歴を組み合わせた掛け合わせ検索など複雑な検索式の作成が可能です。

この基礎編では「History（検索履歴）」と「Search Details（検索式）」の確認方法、そして「Historyを利用した履歴検索」の3つをご紹介します。

History (検索履歴)

The screenshot shows the PubMed Advanced Search Builder interface. At the top, there's a search bar with dropdown menus for 'All Fields' and 'Enter a search term', and a blue 'ADD' button. Below it is a 'Query box' with a placeholder 'Enter / edit your search query here' and a blue 'Search' button. The main area is titled 'History and Search Details'. It has a table with columns: 'Search', 'Actions', 'Details', and 'Query'. The table contains three entries: #3 (Search: "breast milk"), #2 (Search: breast milk), and #1 (Search: infant). To the right of the table are two buttons: 'Download' and 'Delete'. The 'Delete' button is highlighted with a red box. Below the table, it says 'Showing 1 to 3 of 3 entries'. At the bottom right, there's a copyright notice: 'Copyright © 2021. The Japan Medical Library Association. All Rights Reserved.' and the JMLA logo.

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まずは検索履歴です。

「History and Search Details」に今行った検索の履歴が表示されています。

検索ナンバーは古いものが下に、新しいものが上になっています。

Resultsの件数をクリックすると、検索結果画面に遷移します。

「Delete」をクリックすると検索履歴全てが削除されます。

一部の検索式のみ削除したい場合は「Actions」の三点リーダーから

「Delete」を選択してください。

Search Details (検索式)

The screenshot shows the PubMed Advanced Search Builder interface. At the top, there's a search bar with dropdown menus for 'All Fields' and 'Enter a search term', and a blue 'ADD' button. Below it is a 'Query box' with a placeholder 'Enter / edit your search query here' and a blue 'Search' button. In the center, there's a table titled 'History and Search Details' showing three search entries. The first entry is highlighted with a red box around the 'Details' column header. The table has columns for 'Search', 'Actions', 'Details', 'Query', 'Results', and 'Time'. The details for each search are as follows:

Search	Actions	Details	Query	Results	Time
#3	...	>	Search: "breast milk"	14,030	00:58:42
#2	...	>	Search: breast milk	47,317	00:57:21
#1	...	>	Search: infant	1,274,030	00:30:20

At the bottom of the table, it says 'Showing 1 to 3 of 3 entries'. There are also 'Download' and 'Delete' buttons at the top right of the table area.

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Detailsの矢印をクリックすると、Search Detailsが表示されます。
入力した検索語から実際にどのような検索式が生成されたか、このSearch Detailsで確認することができます。

Search Details (検索式)

History and Search Details

Search	Actions	Details	Query	Results	Time
#3	...	▼	Search: "breast milk" "breast milk"[All Fields]	14,030	00:58:42
#2	...	▼	Search: breast milk "milk, human"[MeSH Terms] OR ("milk"[All Fields] AND "human"[All Fields]) OR "human milk"[All Fields] OR ("breast"[All Fields] AND "milk"[All Fields]) OR "breast milk"[All Fields] Translations breast milk: "milk, human"[MeSH Terms] OR ("milk"[All Fields] AND "human"[All Fields]) OR "human milk"[All Fields] OR ("breast"[All Fields] AND "milk"[All Fields]) OR "breast milk"[All Fields]	47,317	00:57:21
#1	...	▼	Search: infant "infant"[MeSH Terms] OR "infant"[All Fields] OR "infants"[All Fields] OR "infant s"[All Fields] Translations infant: "infant"[MeSH Terms] OR "infant"[All Fields] OR "infants"[All Fields] OR "infant s"[All Fields]	1,274,030	00:30:20

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例えば「infant」では、MeSH用語「infant」が付与された論文、または「infant」「infants」「infant s」の文字列がPubMedの検索可能なフィールドのどこかに入っている論文、という検索が行われています。

Historyを利用した履歴検索

The screenshot shows the PubMed Advanced Search Builder interface. At the top, there's a search bar with dropdown menus for 'All Fields' and 'Enter a search term', and a blue 'ADD' button. Below it is a larger 'Query box' with a placeholder 'Enter / edit your search query here' and a blue 'Search' button. In the bottom right corner of the main search area, there are 'Download' and 'Delete' buttons. The main content area is titled 'History and Search Details'. It contains a table with three entries:

Search	Actions	Details	Query	Results	Time
#3	...	>	Search: "breast milk"	14,030	00:58:42
#2	...	>	Search: breast milk	47,317	00:57:21
#1	...	>	Search: infant	1,274,030	00:30:20

The first two rows (#3 and #2) are highlighted with a red box. Below the table, it says 'Showing 1 to 3 of 3 entries'. At the very bottom right of the page, there's a small logo for 'JMLA'.

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これら検索の履歴を利用して掛け合わせ検索ができます。
ここでは「infant」と「breast milk」をAND検索してみます。

Historyを利用した履歴検索

The screenshot shows the PubMed Advanced Search Builder interface. At the top, there's a search bar with dropdown menus for 'All Fields' and 'Enter a search term', and a button for 'AND'. Below the search bar is a 'Query box' containing the query '(infant) AND (breast milk)'. To the right of the query box are 'Search' and 'Add to History' buttons. A red box highlights the 'Query box' area. Below the search bar is a 'History and Search Details' section. It includes a table with columns for 'Search', 'Actions', 'Details', 'Query', 'Results', and 'Time'. The table shows three entries: #3 (Search: "breast milk"), #2 (Search: breast milk), and #1 (Search: infant). The 'Results' column shows values 14,030, 47,317, and 1,274,030 respectively. The 'Time' column shows execution times of 00:58:42, 00:57:21, and 00:30:20. At the bottom of the 'History and Search Details' section, it says 'Showing 1 to 3 of 3 entries'. The footer of the page includes the copyright notice 'Copyright © 2021. The Japan Medical Library Association. All Rights Reserved.' and the JMLA logo.

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「infant」のActionsの三点リーダーをクリックし「Add query」を選択します。

Query boxに「infant」と入りました。

次に「breast milk」のActionsを開きます。

今回は「乳児」と「母乳」で検索したいので論理演算子は「AND」です。

「Add with AND」を選択しましょう。

Query boxに「AND breast milk」が追加されました。

このように、PubMed Advanced Search Builderを利用すると、一歩進んだ検索式の作成・編集が簡単にできます。

Search の横の下向き三角にポインタを合わせると「Add to History」が選択できるようになります。

「Search」をクリックすると検索結果画面に遷移し、「Add to History」をクリックするとこの画面のまま、下部の「History and Search Details」に新たなSearchナンバーが加わります。

PubMedの検索（基礎編）

- PubMedとは
- 基本的な検索
- 検索結果のアウトプット
- Advanced Search

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以上、PubMedの基本的な使い方をご紹介しました。
いかがだったでしょうか。
この動画を参考に、是非PubMedにチャレンジしてみてください。

これで「PubMedの検索 基礎編」を終わります。