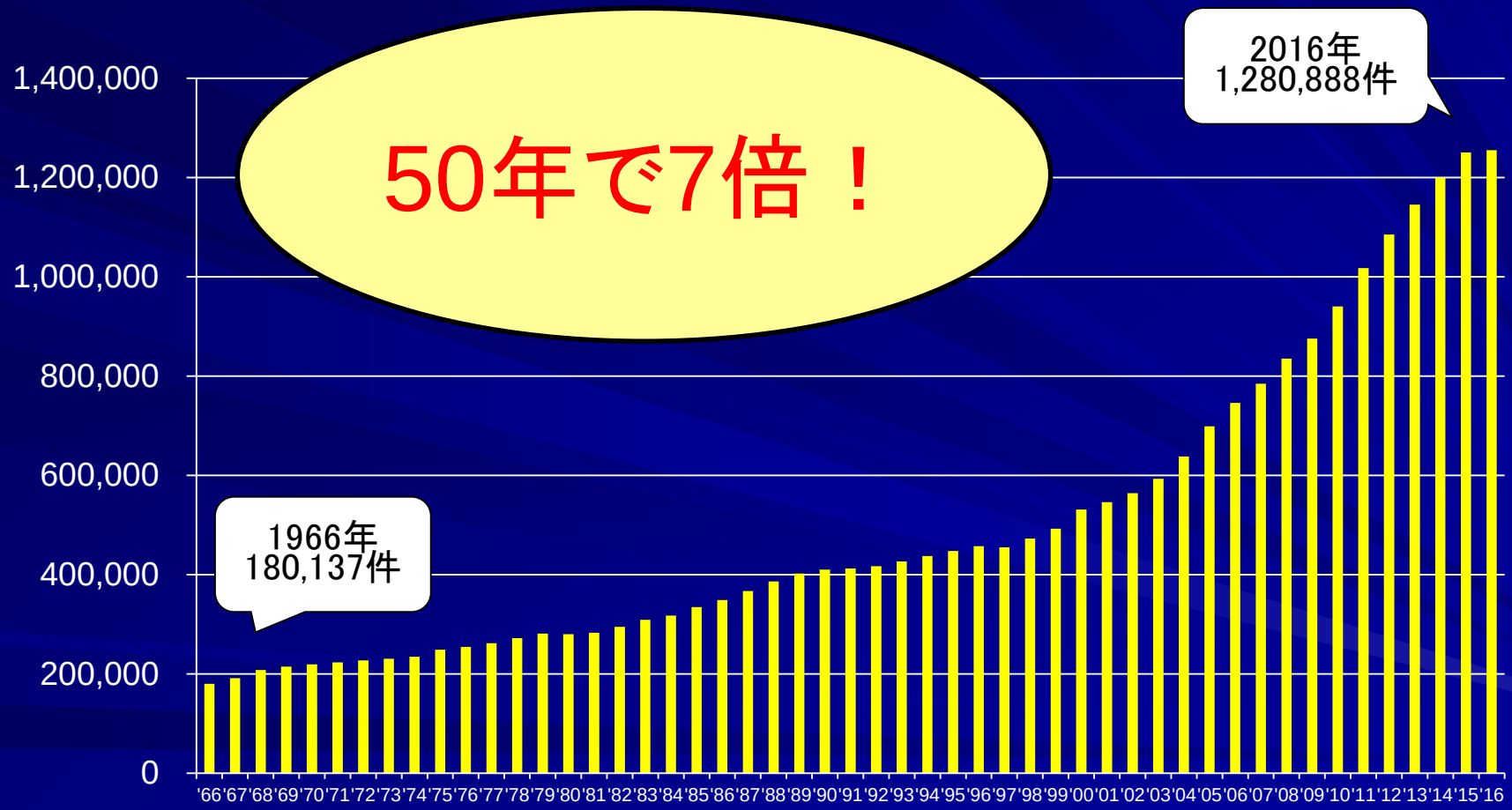
PubMedとは

- 米国国立医学図書館(NLM)が作成する医学関連分野における代表的な文献データベース
- 1946年以降*、世界80ヶ国、約5,600誌の3000万件以上の文献データを収録
- 現在、すべての収録データは電子データで提供
- カレント分は40言語、過去も含めると60言語の文献を収録、93%は英語文献
- 約85%に英文抄録を含む
- 年間100万件以上の新規データが追加
- 毎日290万人による1220万回の検索

過去50年間の医学文献の増加
（PubMed収録文献での各出版年の文献数）



OLDMEDLINEデータ

http://www.nlm.nih.gov/databases/databases_oldmedline.html

Date Added	Citations Added	From Print Index
December 1996	153,127 153,196	1965 *CIM* 1964 *CIM*
November 1998	233,654 227,897	1962 - 1963 *CIM* 1960 - 1961 *CIM*
July 2000	106,301 113,273	1959 *CLML* 1958 *CLML*
May 2002	103,427	1957 *CLML*
May 2003	105,757 109,778 107,927 103,502	1956 *CLML* 1955 *CLML* 1954 *CLML* 1953 *CLML*
February 2004	89,557 97,332	1952 *CLML* 1951 *CLML*
September 2004	55,850	53,533 citations from 1950 *CLML* 2,317 citations from 1951 - 1965*
December 2007	55,557	1949 *CLML*
February 2008	2,332	1949 *CLML* additional citations*
October 2008	70,046	1948 *CLML*
March 2010	63,839	1947 *CLML*
November 2010	49,428	1946 *CLML*
February 2014	11,845	Citations from 1950-1965*

PubMedの新規データ

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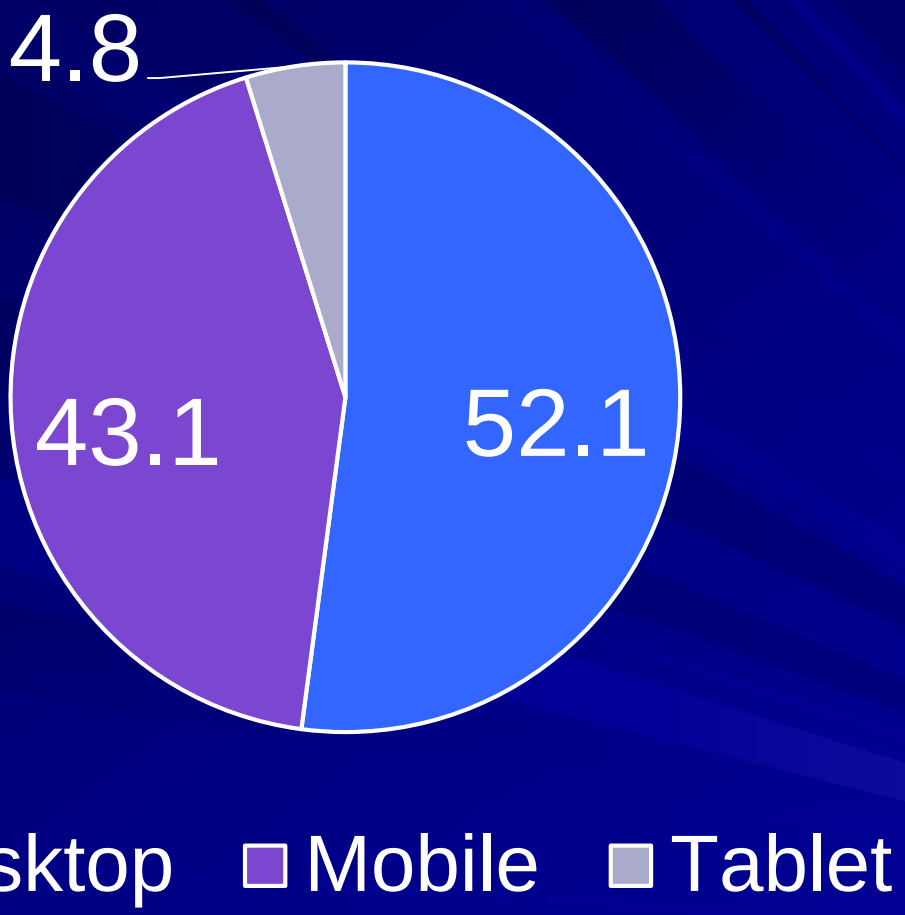
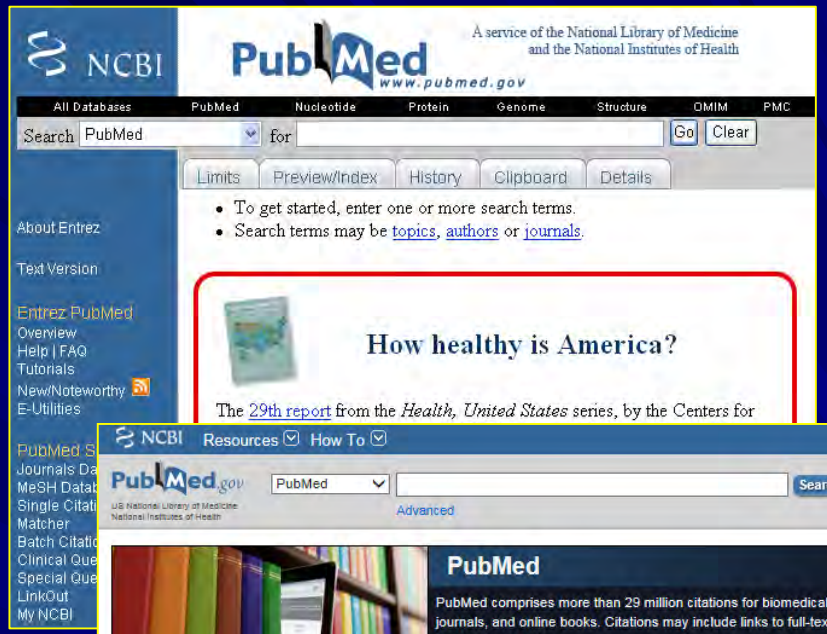
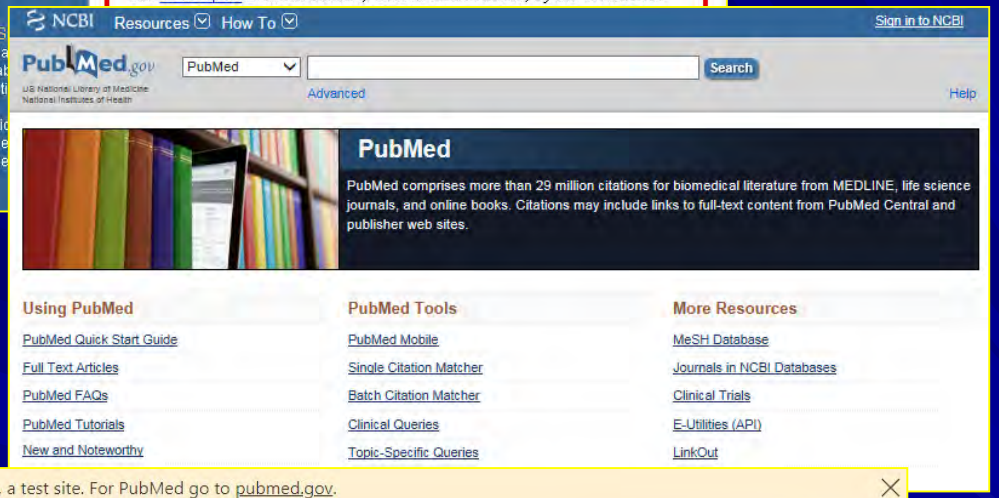


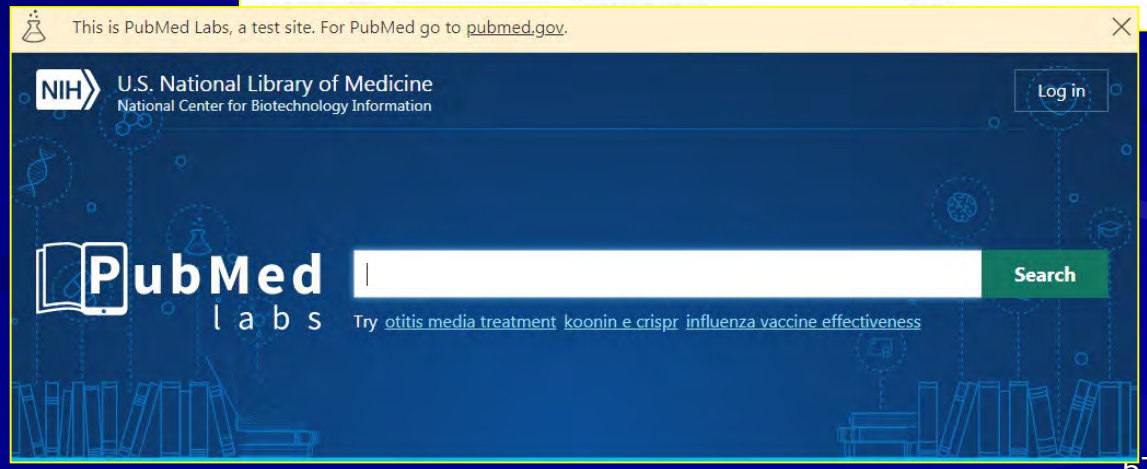
PubMed Update (May 2019)

PubMedの変遷

1996年　実験公開開始
1997年　一般公開開始
2002年　Clinical Queriesに Systematic Reviewが追加
2003年　マッピングにPublication Typeが追加
2005年　RSSフィード利用可能
2009年　Auto Suggest機能が追加
2009年　Limits機能がAdvanced searchへ統合（デザインの大幅な変更）
2010年　Abstractが構造化抄録形式に
2011年　PubMed Mobile（ベータ版）公開
2012年　Limits機能がサイドバーのフィルターに変更
2013年　検索結果の表示順に関連度が追加
2014年　データ更新作業が週5日から毎日に
2015年　Summary形式表示からステータスが削除
2017年　PubMed Labs公開
2019年　新PubMed公開

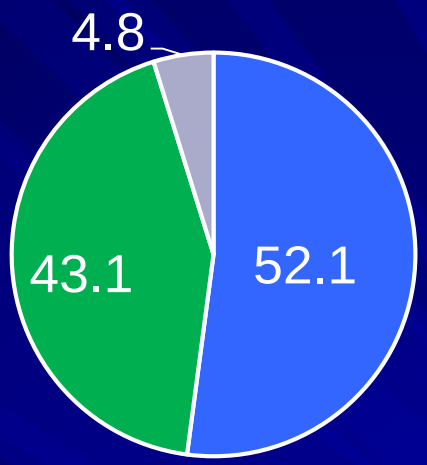


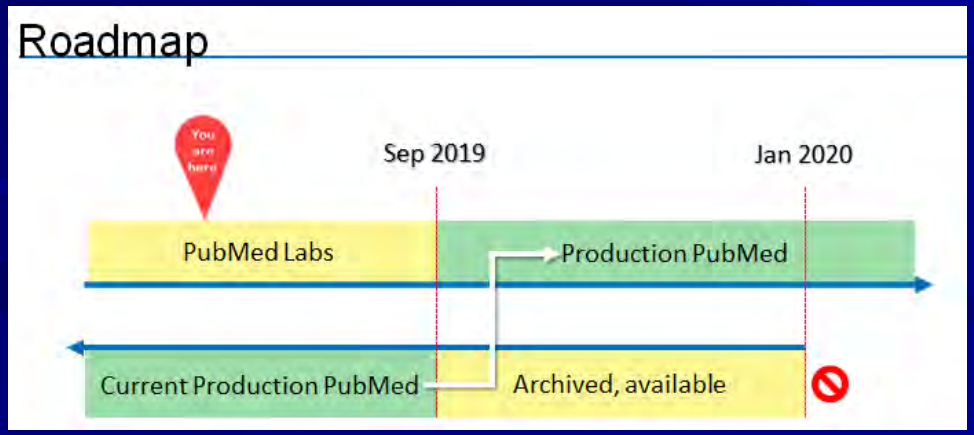




PubMed Labsでのテスト

・簡素化とクラウド対応
・利用者のニーズに合わせた既存・新規機能の検証
・高度な検索のプロトタイプのテスト
・ブラウザのパフォーマンスの改善
・モバイル版のデザイン改良





2019年9月から現在のPubMed（現PM）のURLで、現在のPubMed Labs（新PM）が表示されるようになり、現PMも残るが、2020年1月からは利用できなくなる予定。（後に予定を延期）
PubMed Update (May 2019)

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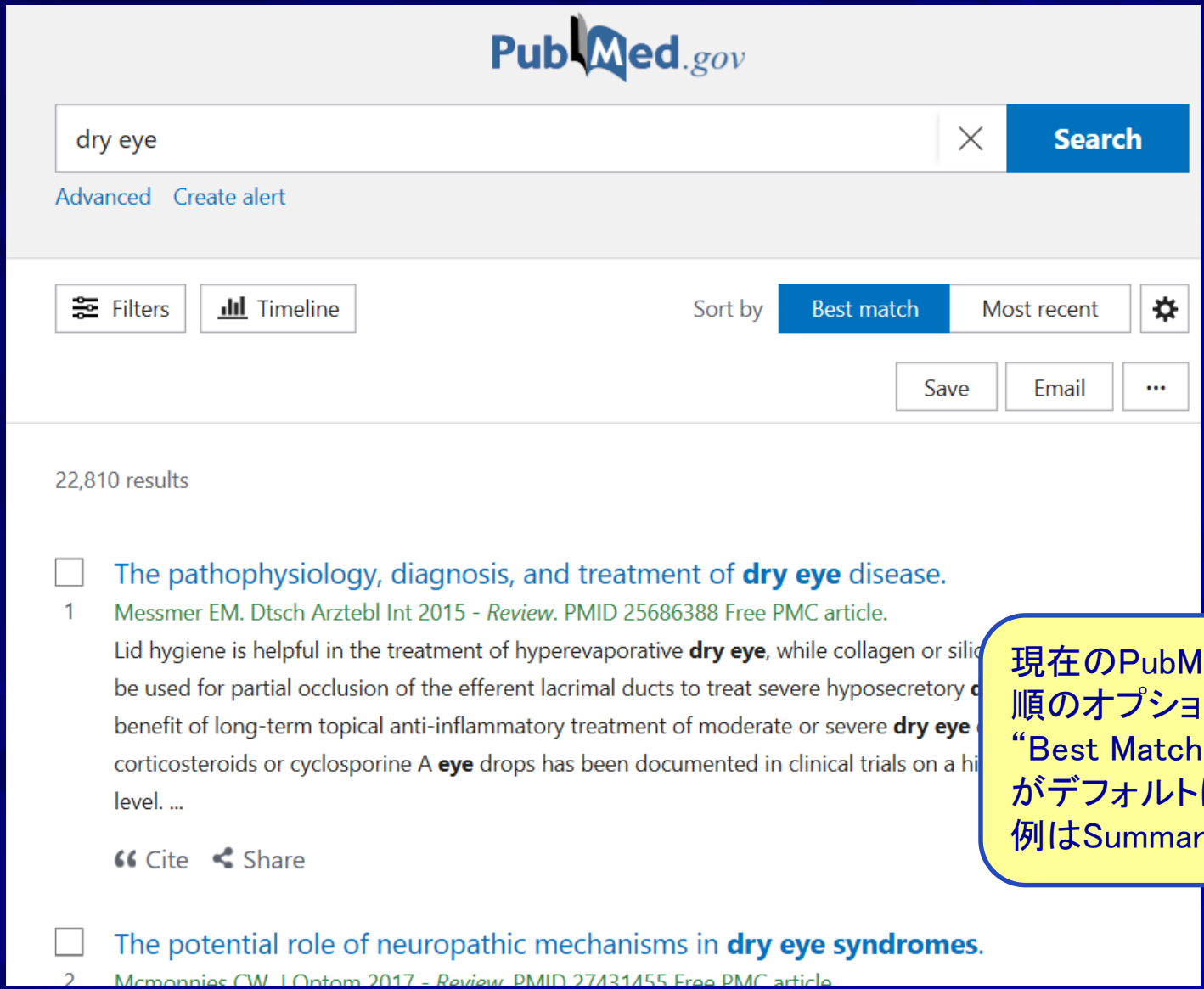
新PubMedの画面例：Summary形式表示



現在のPubMedでも表示順のオプションにある“Best Match”（関連度順）がデフォルトになる。画面例はSummary形式。

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Format: Summary **Sort by**: Most Recent **Per page**: 20

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Best matches for dry eye:

The pathophysiology, diagnosis, and treatment of dry eye disease.
Messmer EM et al. Dtsch Arztebl Int. (2015)

The potential role of neuropathic mechanisms in dry eye syndromes.
Mcmonnies CW et al. J Optom. (2017)

The definition and classification of dry eye disease: report of the Definition and Classification Subcommittee of the International Dry Eye WorkShop (2007).
et al. Ocul Surf. (2007)

Switch to our new best match sort order

Search results

Items: 1 to 20 of 22819 First Prev Page 1 of 1141

1. Cytomorphological assessment of the lid margin in relation to contact lens wear and lid wiper epitheliopathy.
Muntz A, Subbaraman LN, Craig JP, Jones L.
Ocul Surf. 2019 Dec 7. pii: S1542-0124(19)30301-5. doi: 10.1016/j.jtos.2019.12.001

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All (22819)

English OR Japanese only (19560)

EJ Available (5913)

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Results by year

CSV

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現在のPubMedでも検索結果画面で“Best Match”での表示を推奨している。
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新PubMed画面例：Snippets

22,810 results

1 The pathophysiology, diagnosis, and treatment of **dry eye** disease.

Messmer EM. Dtsch Arztebl Int 2015 - *Review*. PMID 25686388 Free PMC article.

Lid hygiene is helpful in the treatment of hyperevaporative **dry eye**, while collagen or silicon plugs can be used for partial occlusion of the efferent lacrimal ducts to treat severe hyposecretory **dry eye**. The benefit of long-term topical anti-inflammatory treatment of moderate or severe **dry eye** disease with corticosteroids or cyclosporine A **eye** drops has been documented in clinical trials on a high evidence level. ...

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2 The potential role of neuropathic mechanisms in **dry eye**

Mcmonnies CW. J Optom 2017 - *Review*. PMID 27431455 Free PMC artic

Dry eye syndromes can involve both nociceptive and neuropathic symp are the normal physiological responses to noxious stimuli. ...Neuropathic incommensurate relation between signs and symptoms in some **dry eye** of signs of a **dry eye** syndrome may also be a consequence of inappropriate methods used when

“Snippets”（スニペット）と呼ばれる、抄録中から検索語に関連度が高そうな部分を抜き出して書誌情報の下に表示される。

Format: Abstract Send to

Dtsch Arztebl Int. 2015 Jan 30;112(5):71-81; quiz 82. doi: 10.3238/arztebl.2015.0071.

The pathophysiology, diagnosis, and treatment of dry eye disease.

Messmer EM.

Abstract

BACKGROUND: Dry eye disease (DED) is common; its prevalence around the world varies from 5% to 34%. Its putative pathogenetic mechanisms include hyperosmolarity of the tear film and inflammation of the ocular surface and lacrimal gland. Dry eye is clinically subdivided into two subtypes: one with decreased tear secretion (aqueous-deficient DED), and one with increased tear evaporation (hyperevaporative DED).

METHODS: This review is based on pertinent publications retrieved by a selective PubMed search and on the authors' own clinical and scientific experience.

RESULTS: The diagnostic evaluation of dry eye disease should include a detailed patient history, thorough split-lamp examination, and additional tests as indicated. Few randomized controlled therapeutic trials for dry eye have been published to date. Artificial tears of various kinds are recommended if the symptoms are mild. Lid hygiene is helpful in the treatment of hyperevaporative dry eye, while collagen or silicon plugs can be used for partial occlusion of the efferent lacrimal ducts to treat severe hyposecretory dry eye. The benefit of long-term topical anti-inflammatory treatment of moderate or severe dry eye disease with corticosteroids or cyclosporine A eye drops has been documented in clinical trials on a high evidence level. Orally administered tetraycycline derivatives and omega-3 or omega-6 fatty acids are also used.

CONCLUSION: The treatment of dry eye has evolved from tear substitution alone to a rationally based therapeutic algorithm. Current research focuses on pathophysiology, new diagnostic techniques, and novel therapies including secretagogues, topical androgens, and new anti- inflammatory drugs.

新PubMedの画面例：Abstracts形式

Review › Dtsch Arztebl Int, 112 (5), 71-81; quiz 82 2015 Jan 30

The Pathophysiology, Diagnosis, and Treatment of Dry Eye Disease

Elisabeth M Messmer

PMID: 25686388 PMCID: PMC4335585 DOI: 10.3238/arztebl.2015.0071

Full-text links Cite

Abstract

Background: Dry eye disease (DED) is common; its prevalence around the world varies from 5% to 34%. Its putative pathogenetic mechanisms include hyperosmolarity of the tea
of the ocular surface and lacrimal gland. Dry eye is clinically subdivided into tw
decreased tear secretion (aqueous-deficient DED), and one with increased tear
(hyperevaporative DED).

Methods: This review is based on pertinent publications retrieved by a selecti
on the authors' own clinical and scientific experience.

個々のタイトルをクリックして表示されるAbstract形式は、これまでと同様に抄録や“Similar articles”（類似文献）などが表示される。

Review > Dtsch Arztebl Int, 112 (5), 71-

The Pathophysiology, Di
Dry Eye Disease

Elisabeth M Messmer

PMID: 25686388 PMCID: PMC4335585 DOI:

Full-text links Cite

Abstract

Background: Dry eye disease (DED) is commo

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CITATION TEXT

Messmer EM. The pathophysiology, diagnosis, and treatment of dry eye disease. Dtsch Arztebl Int. 2015;112(5):71–82. doi:10.3238/arztebl.2015.0071

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Format: AMA MLA APA NLM

CID: PMC4335585 DOI: 10.3238/arztebl.2015.0

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Figures

Figure 1 5 Meibomian gland dysfunction a) Meibomian

Figure 2 5 Lid-parallel conjunctival folds (grade 1

Figure 3 5 Vital staining of the ocular...

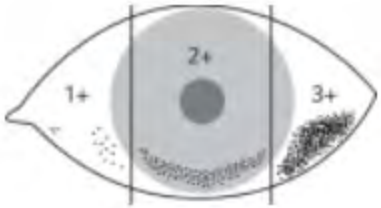

Figure 4 5

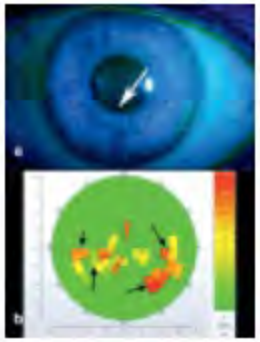

Figure 5 5 Measuring

Figure 6 5 Schirmer test

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Similar articles

The Feasibility of Finger Prick Autologous Blood (FAB) as a Novel Treatment for Severe Dry Eye Disease (DED): Protocol for a Randomised Controlled Trial

S Balal et al. BMJ Open 8 (10), e026770. 2018. PMID 30385451.

NCT03395431; Pre-results.

Dry Eye: Diagnosis and Current Treatment Strategies

PD O'Brien et al. Curr Allergy Asthma Rep 4 (4), 314-9. Jul 2004. PMID 15175147. - *Review*

One in four patients attending ophthalmic clinics report symptoms of dry eye, making it one of the most common complaints seen by ophthalmologists. Aqueous-layer deficien ...

Rethinking Dry Eye Disease: A Perspective on Clinical Implications

AJ Bron et al. Ocul Surf 12 (2 Suppl), S1-31. Apr 2014. PMID 24725379. - *Review*

Publication of the DEWS report in 2007 established the state of the science of dry eye disease (DED). Since that time, new evidence suggests that a rethinking of traditio ...

Treatment of Dry Eye Disease

LL Marshall et al. Consult Pharm 31 (2), 96-106. Feb 2016. PMID 26842687. - *Review*

DED is one of the most common ophthalmic disorders. Signs and symptoms of DED ocular irritation, redness, itching, photosensitivity, visu ...

個々のタイトルをクリックして表示される詳細情報には、Abstractの下には“ Similar articles”（類似文献）や“ Cited by”（被引用文献）がデフォルトで表示される。

Cited by 42 PubMed Central articles

Diagnostic Tests in Dry Eye

A Kloosterboer et al. Expert Rev Ophthalmol 14 (4-5), 237-246. 2019. PMID 31649745.

DE is an umbrella term that encompasses different etiologies and pathophysiological mechanisms. The current definition recognizes tear instability, high osmolarity, infla ...

Update on the Role of Impression Cytology in Ocular Surface Disease

ZZ Thia et al. Taiwan J Ophthalmol 9 (3), 141-149. 2019. PMID 31572650. - *Review*

Understanding of the molecular pathology of ocular surface disease (OSD) is poor, and treatment is highly unsatisfactory. To facilitate treatment of OSD, a relatively non ...

Aggregatibacter actinomycetemcomitans Leukotoxin (LtxA; Leukothera ®): Mechanisms of Action and Therapeutic Applications

BA Vega et al. Toxins (Basel) 11 (9). 2019. PMID 31454891. - *Review*

Aggregatibacter actinomycetemcomitans is an oral pathogen that produces the RTX toxin, leukotoxin (LtxA; Leukothera®). *A. actinomycetemcomitans* i ...

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References

1. The definition and classification of dry eye disease: report of the Definition and Classification Subcommittee of the International Dry Eye WorkShop. Ocul Surf. 2007;5:75–92. - PubMed
2. Stern ME, Schaumburg CS, Pflugfelder SC. Dry eye as a mucosal autoimmune disease. Int Rev Immunol. 2013;32:19–41. - PMC - PubMed
3. Stevenson W, Chauhan SK, Dana R. Dry eye disease: an immune-mediated ocular surface disorder. Arch Ophthalmol. 2012;130:90–100. - PMC - PubMed
4. Lemp MA, Crews LA, Bron AJ, Foulks GN, Sullivan BD. Distribution of aqueous-deficient and evaporative dry eye in a clinic-based patient cohort: a retrospective study. Cornea. 2012;31:472–478. - PubMed
5. Chia EM, Mitchell P, Rochtchina E, Lee AJ, Maroun R, Wang JJ. Prevalence and associations of dry eye syndrome in an older population: the Blue Mountains Eye Study. Clin Exp Ophthalmol. 2003;31:229–232. - PubMed

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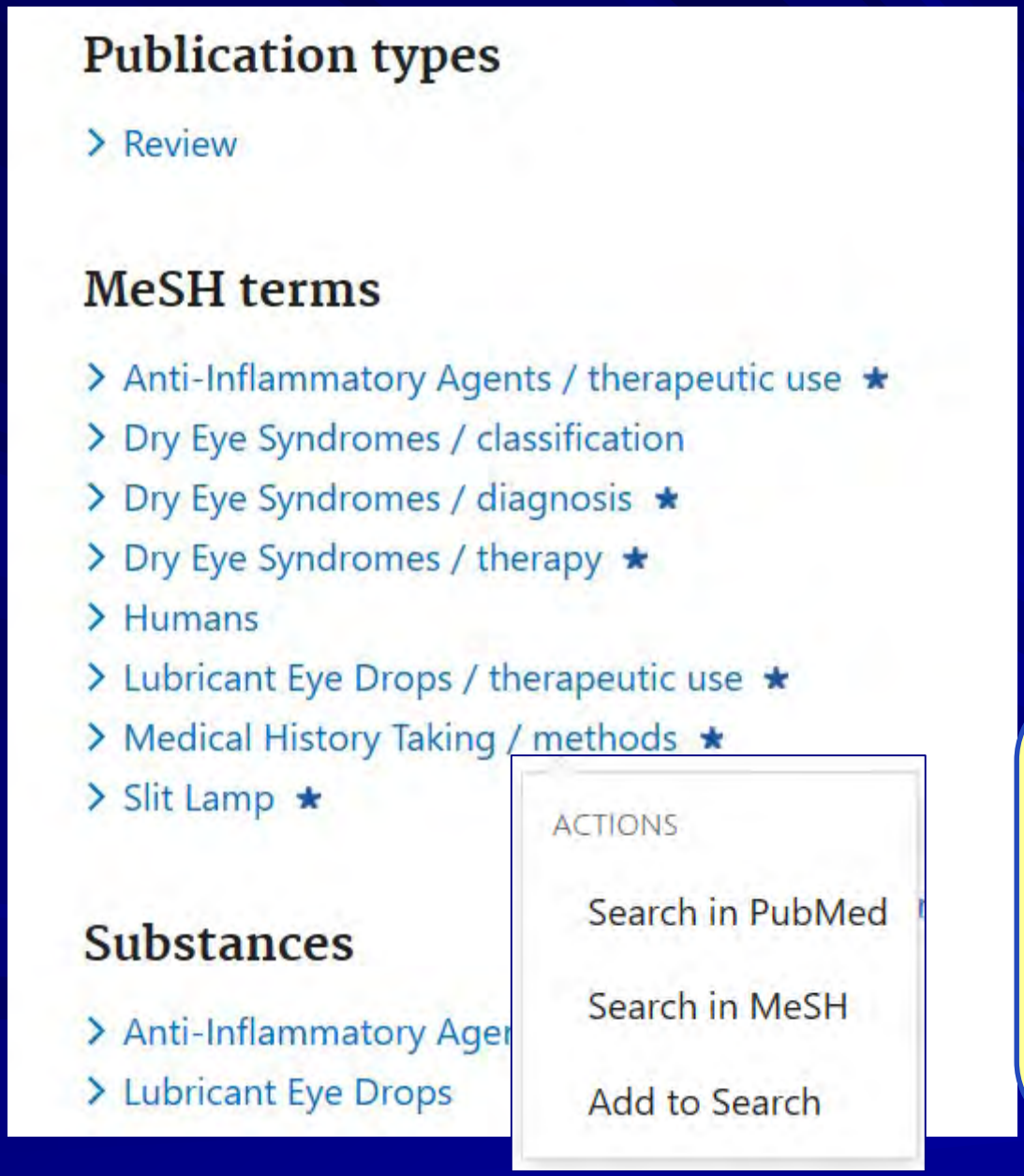
PMC収録論文であれば、参考文献リストも表示されるので、本文に行かなくても、PubMedへのリンク付きで関連文献を確認できる。



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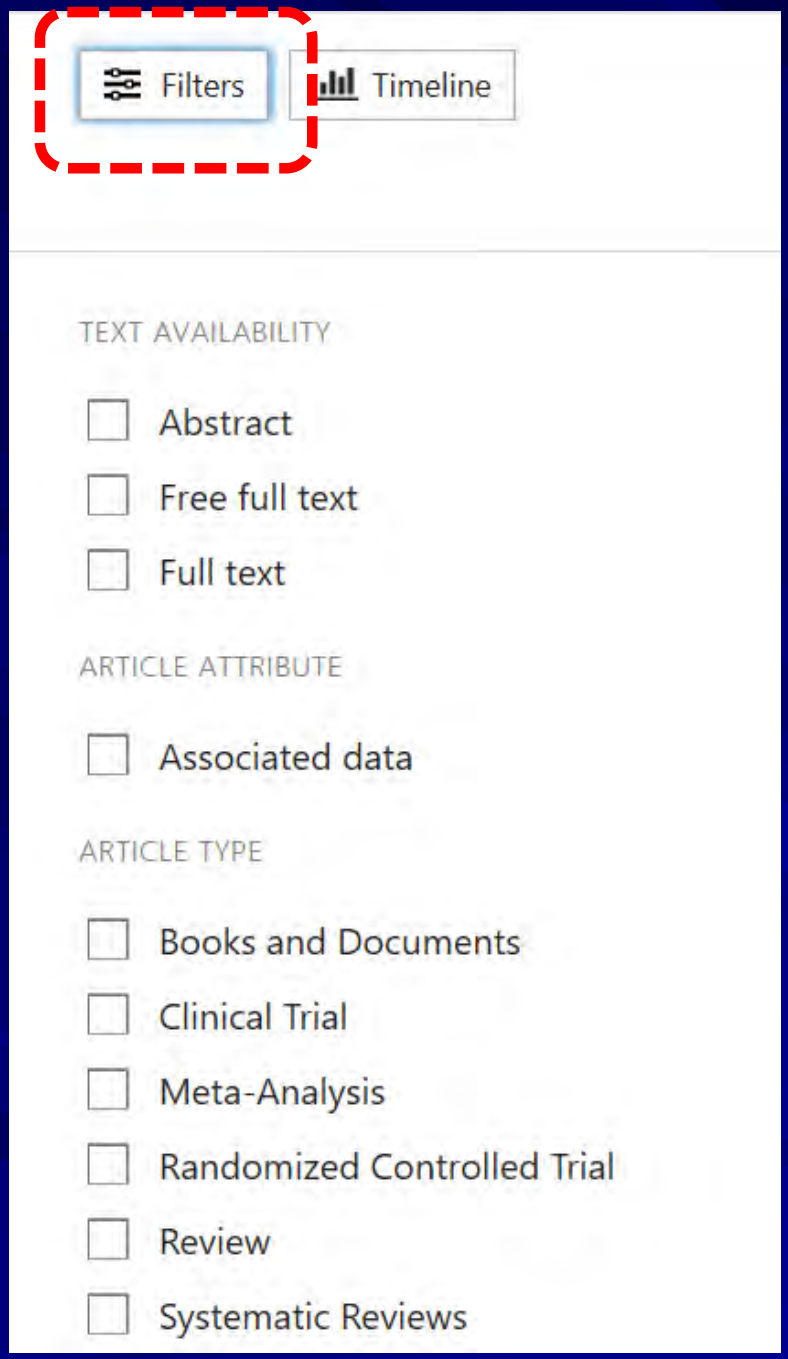
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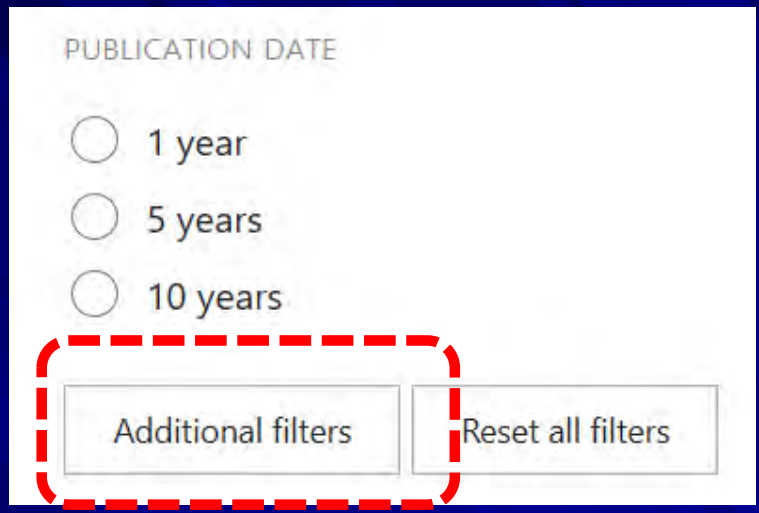
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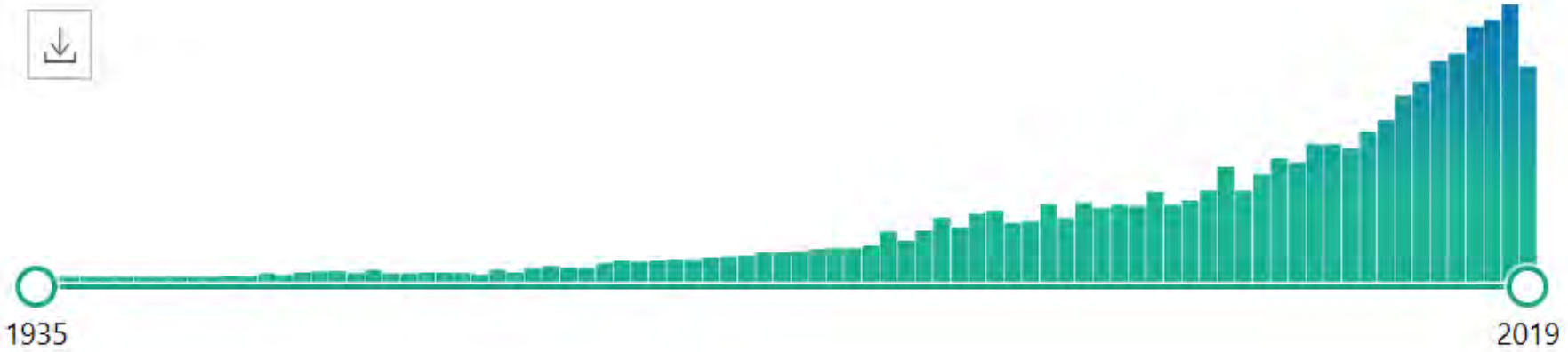

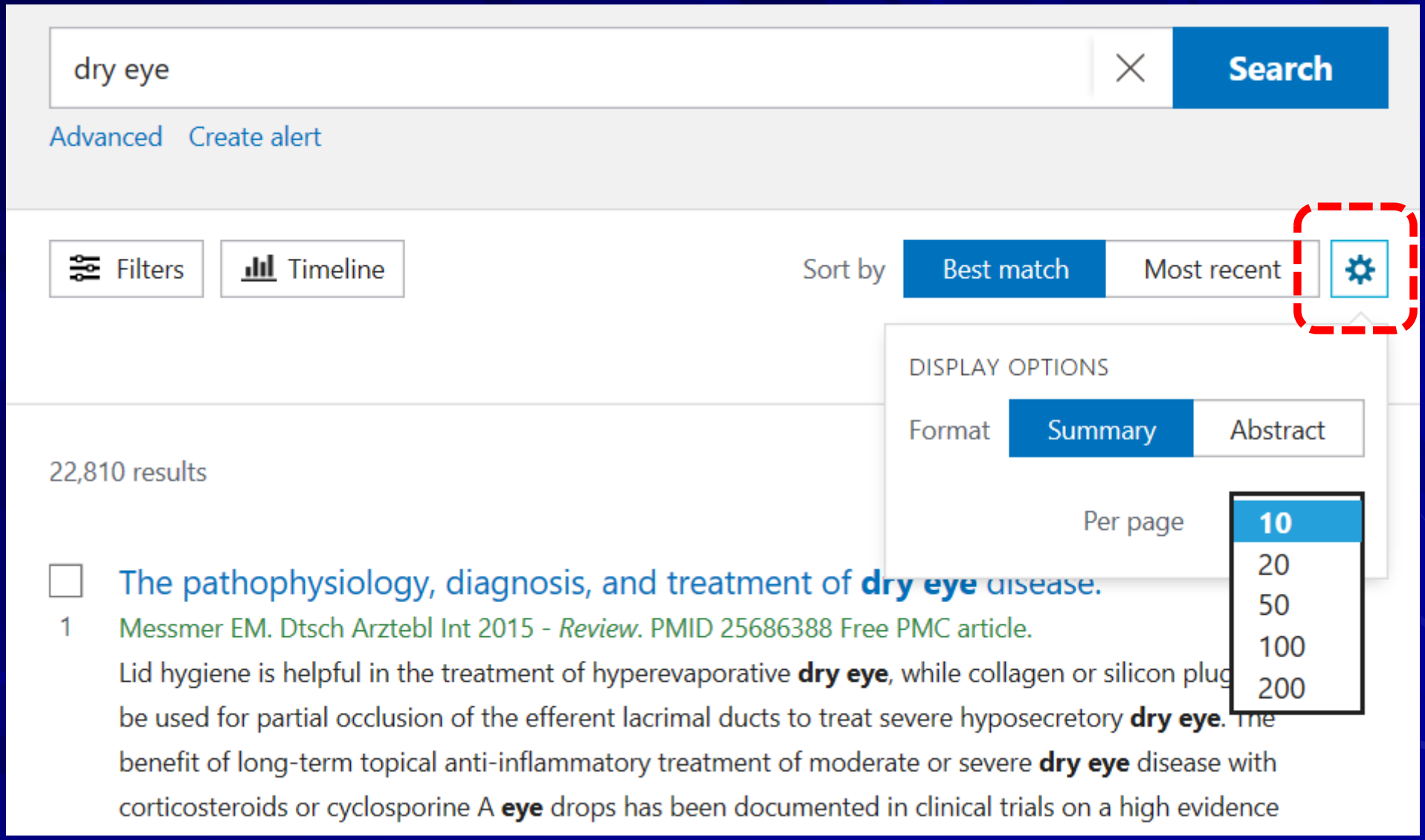
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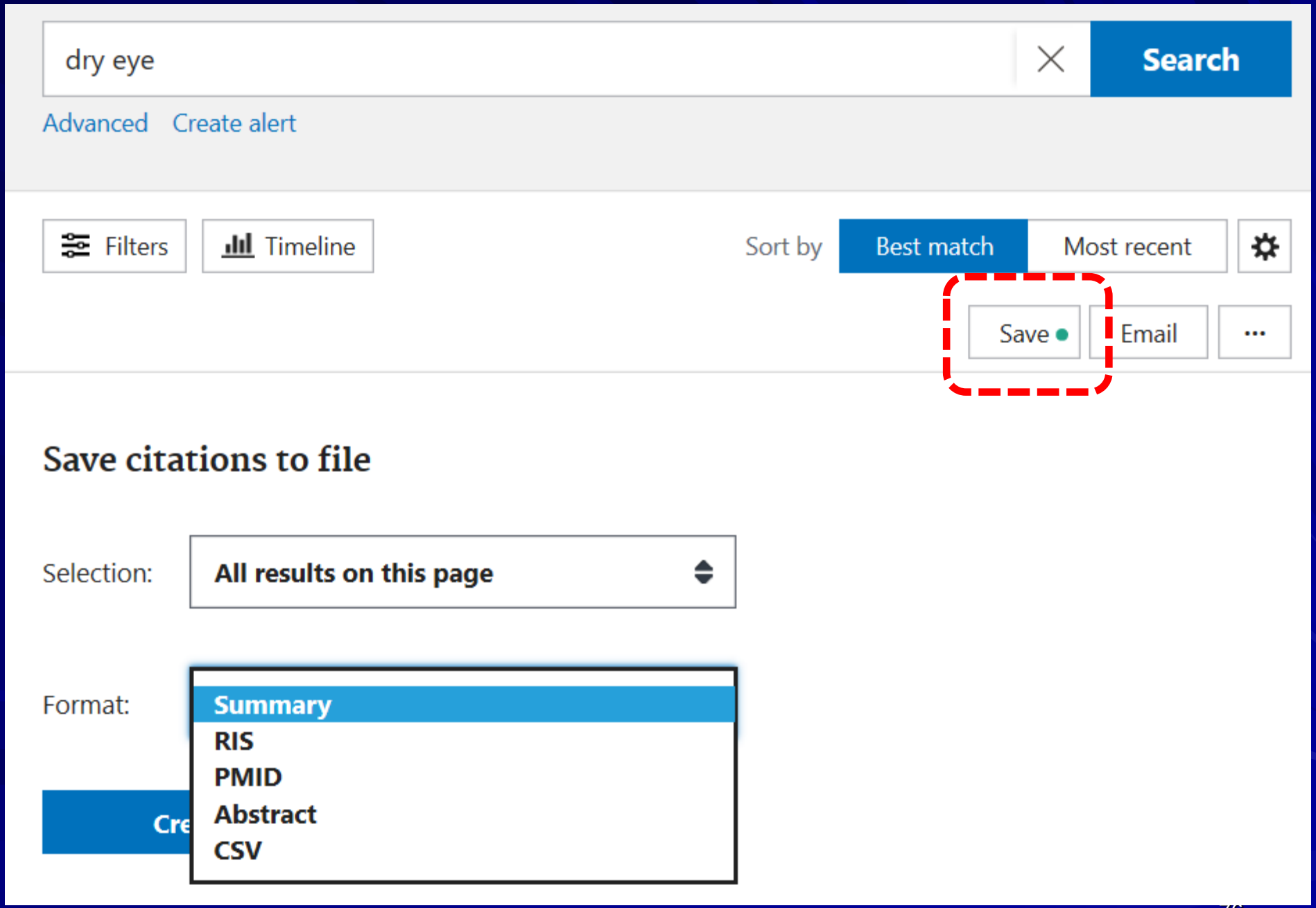
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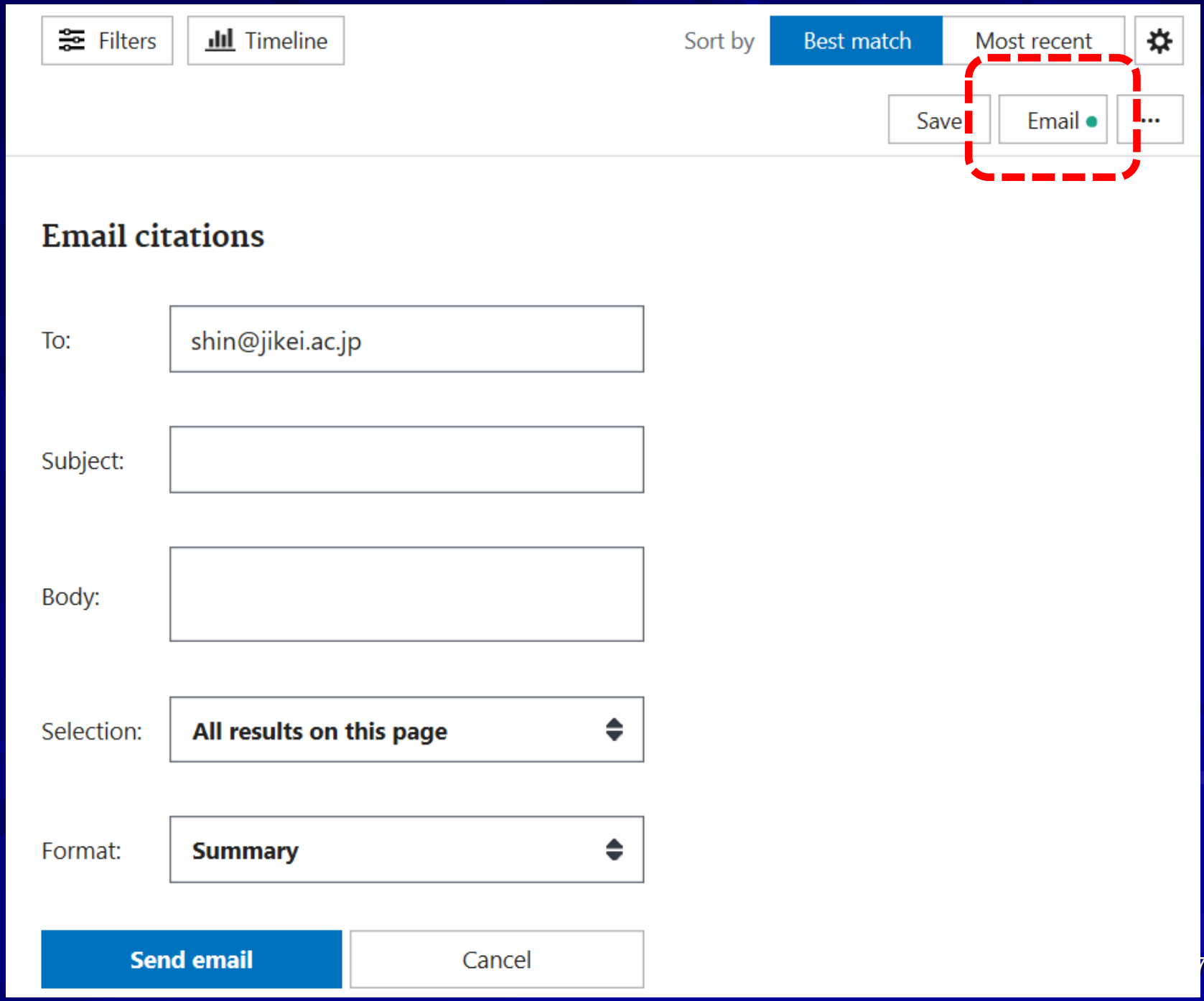
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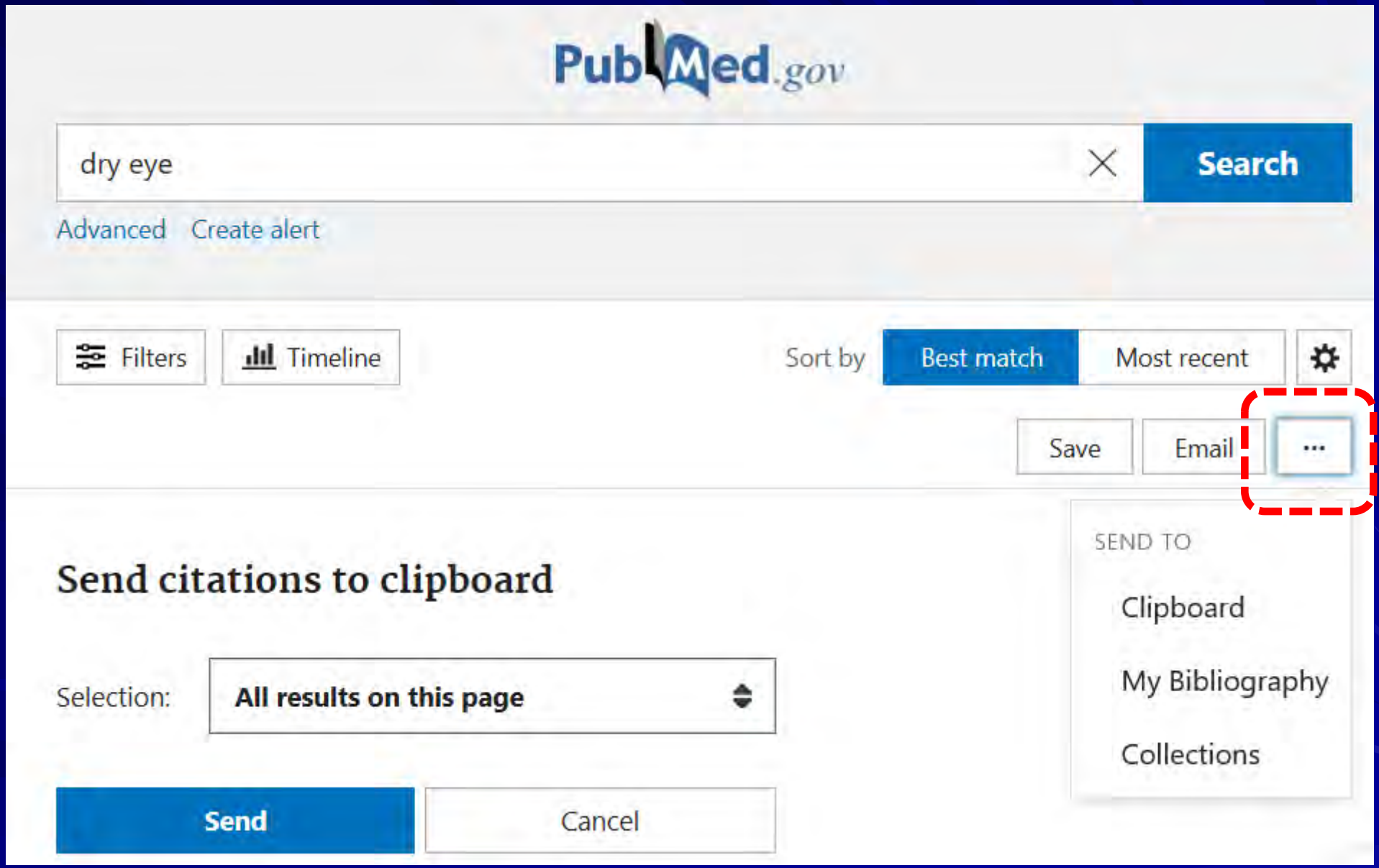
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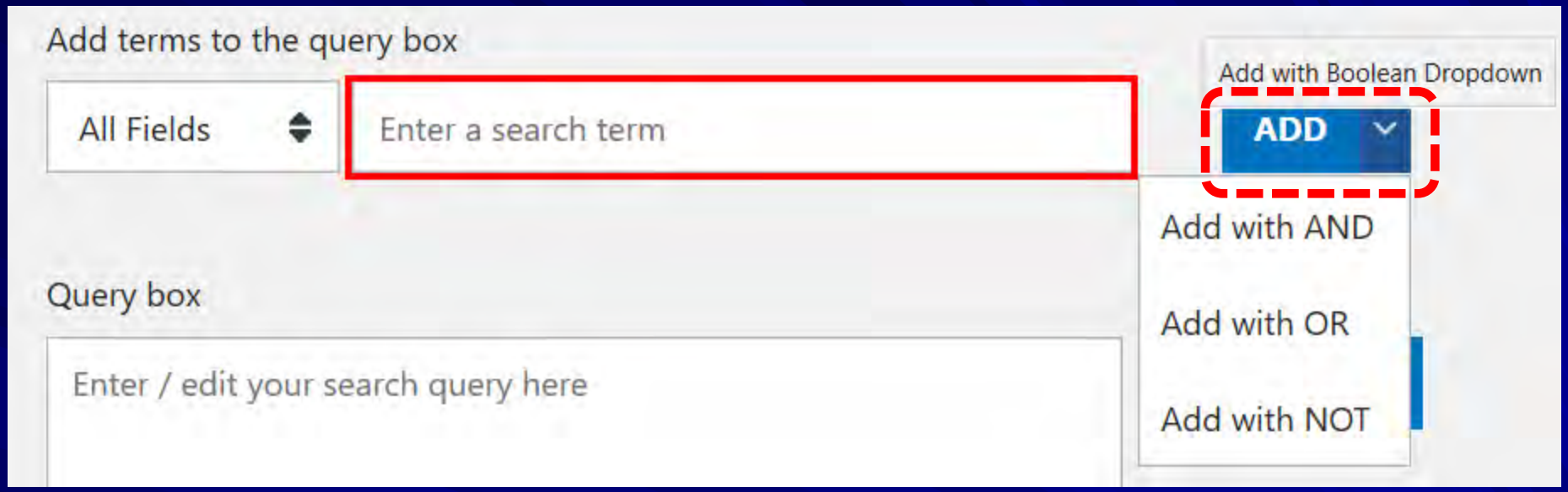
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新PubMed（PubMed Labs）発表後の変更

NLMでは、PubMed labsの公開以後、利用者（主に米国市民）からのフィードバックを受け付けている。新PubMedのコンセプトとして、Mobileファーストを掲げ、現PubMedの機能をすべては移行せず、スリム化を図るとしているが、ニーズに応じた以下の改良を続け、徐々に現在のPubMedと同じ機能を持ちつつある。ただ、現時点で、LinkOutの打ち切りや検索結果のMEDLINE形式の廃止など、関係する個々の継続性については引き続き確認と対応が必要である。

2019年1月　検索結果の保存（Save）と電子メール送信（Email）オプションの追加

2019年3月　Advanced Search、History、Search Details機能の追加

2019年4月　Clipboard機能の追加

2019年8月　検索結果の絞り込みのためのFilter機能の拡張

2019年10月　保存オプションにCSV形式を追加、MyNCBIアラートの追加、Abstract形式表示のMeSHからのMeSH Database検索機能の追加

2019年8月現在わかっている変更によって、以下のような影響が考えられる。

検索パターンA：Google型への影響

検索結果の表示順の初期設定が「新しい順」から「適合順」に変わるのは、Googleなどのサーチエンジン慣れしたモバイルユーザには便利になる。

モバイルを意識したデザインや機能によって、モバイルによる利用者が増加する。

検索パターンB：MeSH活用型への影響

MeSHに関してはほとんど情報がないので、2009年の大改訂のときと同じく、

MeSH DatabaseやMeSH Browserはしばらく現在のまま放置されると思われる。

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- Clinical Queries
- Topic-Specific Que

More Resources

- MeSH Database
- Journals in NCBI Databases
- Clinical Trials

PubMedのトップ画面左下のリンクからは自己学習用プログラムや最新の変更点などが確認できる

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Title	Date
Medical Subject Headings (MeSH®) in MEDLINE®/PubMed®: A Tutorial An exploration of how Medical Subject Headings (MeSH) are used for indexing MEDLINE records in PubMed. This tutorial is intended for PubMed searchers.	May 16, 2019
PubMed Tutorial Our comprehensive tutorial on PubMed scope, content and features, including an in-depth explanation of PubMed Automatic Term Mapping (ATM).	Dec. 18, 2018
Searching Drugs or Chemicals in PubMed Learn to efficiently and effectively search substances in PubMed	Dec. 19, 2018
PubMed for Nurses This tutorial was cr nurses efficiently find literature using P content consists of five videos with exe The tutorial was designed to be comple	

説明は英語だが、動画やクイズなどを使って、わかりやすくなっている

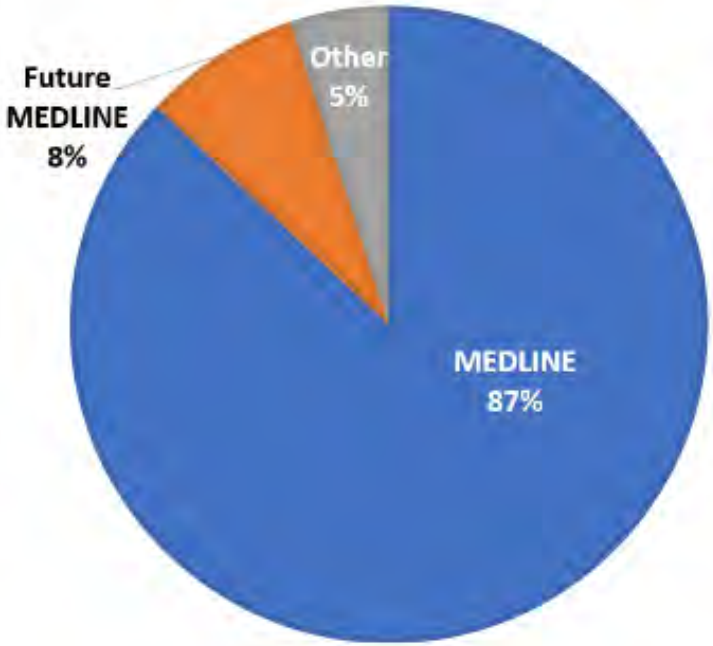
PubMed Tutorial

- Introduction
  - PubMed Overview
  - What's in PubMed?
  - Navigating PubMed
  - Quiz
- Understanding the Vocabulary
- Building the Search
- Managing the Results
- Saving the Search
- Getting the Articles
- Beyond PubMed
- My NCBI

What's in PubMed?

- Almost 30 million records representing articles in the biomedical literature and a small selection of items from the NCBI Books database.
- Most PubMed records are MEDLINE citations.
- Other records include those in different stages of processing (including records provided directly from the journal publisher) but destined to be MEDLINE citations.
- A relatively small number of records that are included in PubMed but not selected for MEDLINE.

PubMed does not contain full-text articles.



ホームページの下方には、よく読まれている雑誌の新しい文献や、よく読まれている文献情報なども表示されている

PubMed Commonsは2018年3月で削除された

Trending Articles

PubMed records with recent increases in activity

Chronic inflammation in the etiology of disease across the life span

NATURE MEDICINE. 2019.

Margarita Salas (1938-2019)

NATURE. 2019.

Psychological Constellations Assessed at Age 13 Predict Distinct Forms of Eminence 35 Years Later

PSYCHOLOGICAL SCIENCE. 2019.

Vemurafenib and cobimetinib combination therapy for BRAFV600E-mutated melanoma

Latest Literature

New articles from highly accessed journals

Blood (1)

Cochrane Database Syst Rev (2)

Drugs (1)

J Biol Chem (10)

J Clin Oncol (3)

JAMA (24)

Lancet (20)

Nature (6)

PLoS One (57)

PubMedやNLMに関する情報の入手方法

山下ユミ・岩下愛著
　図解PubMedの使い方　第7版．日本医学図書館協会，2016.11.

PubMedの使い方 – 慶應義塾大学信濃町メディアセンター
　http://www.med.lib.keio.ac.jp/pdf/ug/ug_pubmed.pdf

NLM Technical Bulletin
　http://www.nlm.nih.gov/pubs/techbull/tb.html

PubMed の使い方 – 東京慈恵会医科大学学術情報センター
　www.jikei.ac.jp/academic/micer/pubmed1.pdf
　www.jikei.ac.jp/academic/micer/pubmed2.pdf

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　http://www.sisoken.net