Overview of the New PubMed

The new version of PubMed (PubMed 2.0) is now the default version of PubMed.

To view this document not in print mode, View > [uncheck] Print layout.

To view this document's outline, View > [check] Show document outline.

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Interface Overview

PubMed's interface has been updated for a cleaner look. More importantly, the interface has been improved for mobile use and is now consistent across devices, with features such as filtering and saving searches available on smartphones. This is an especially important change, as roughly 20% of PubMed searches are done on mobile devices.

Main Search Page

The main search page has not changed greatly. The biggest difference is that there is no longer a dropdown for other National Center of Biotechnology Information (NCBI) databases (Gene, dbGAP, MeSH). You can access the MeSH database through a link in the lower right of the page. Access other NCBI databases by clicking the National Library of Medicine/NCBI link in the upper left.

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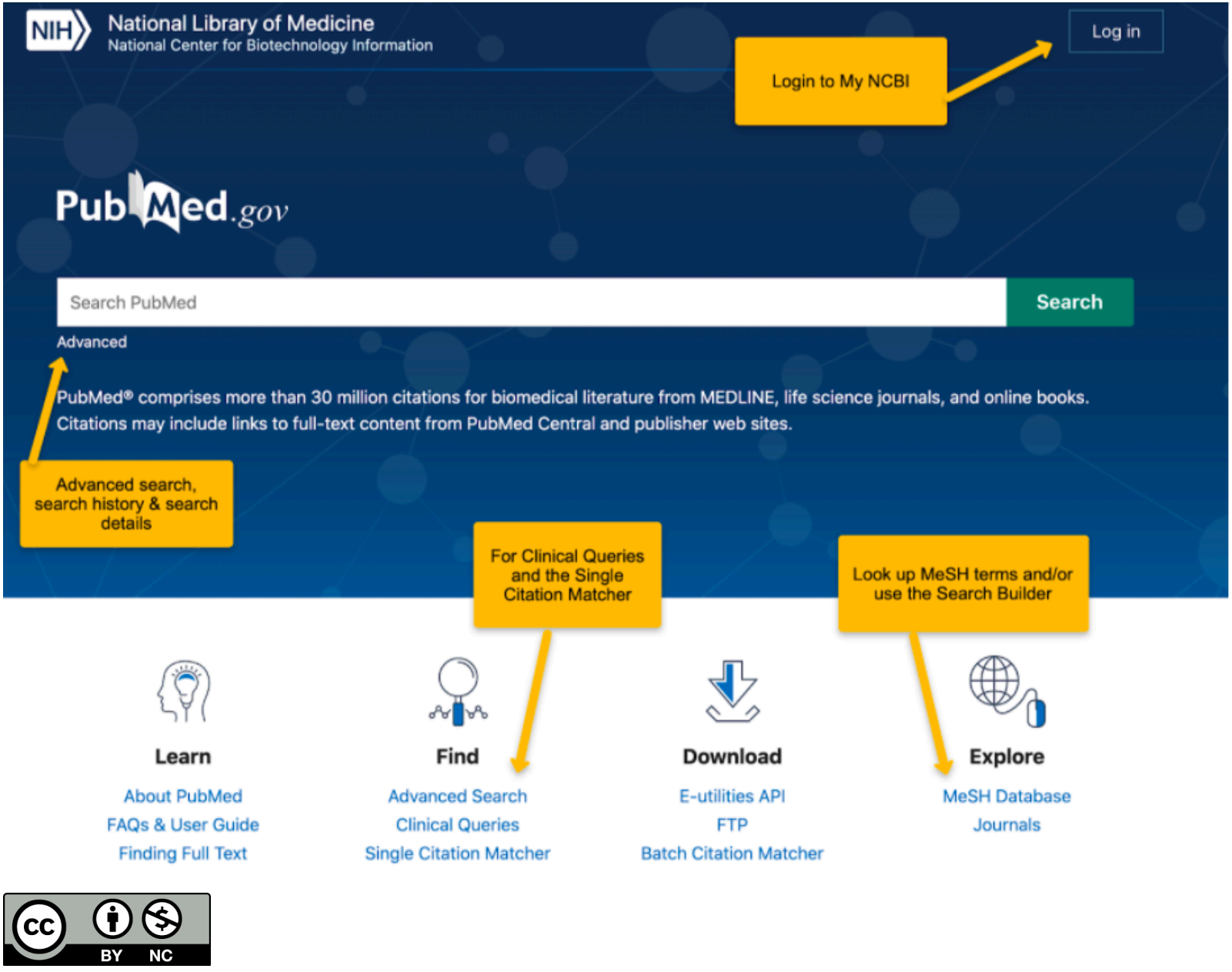

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Search Results Page

A significant difference on this page is that results are no longer sorted by **Most Recent** by default. Results are sorted by **Best Match** (see section on the Best Match algorithm for more details). You can change the sort order under Display Options.

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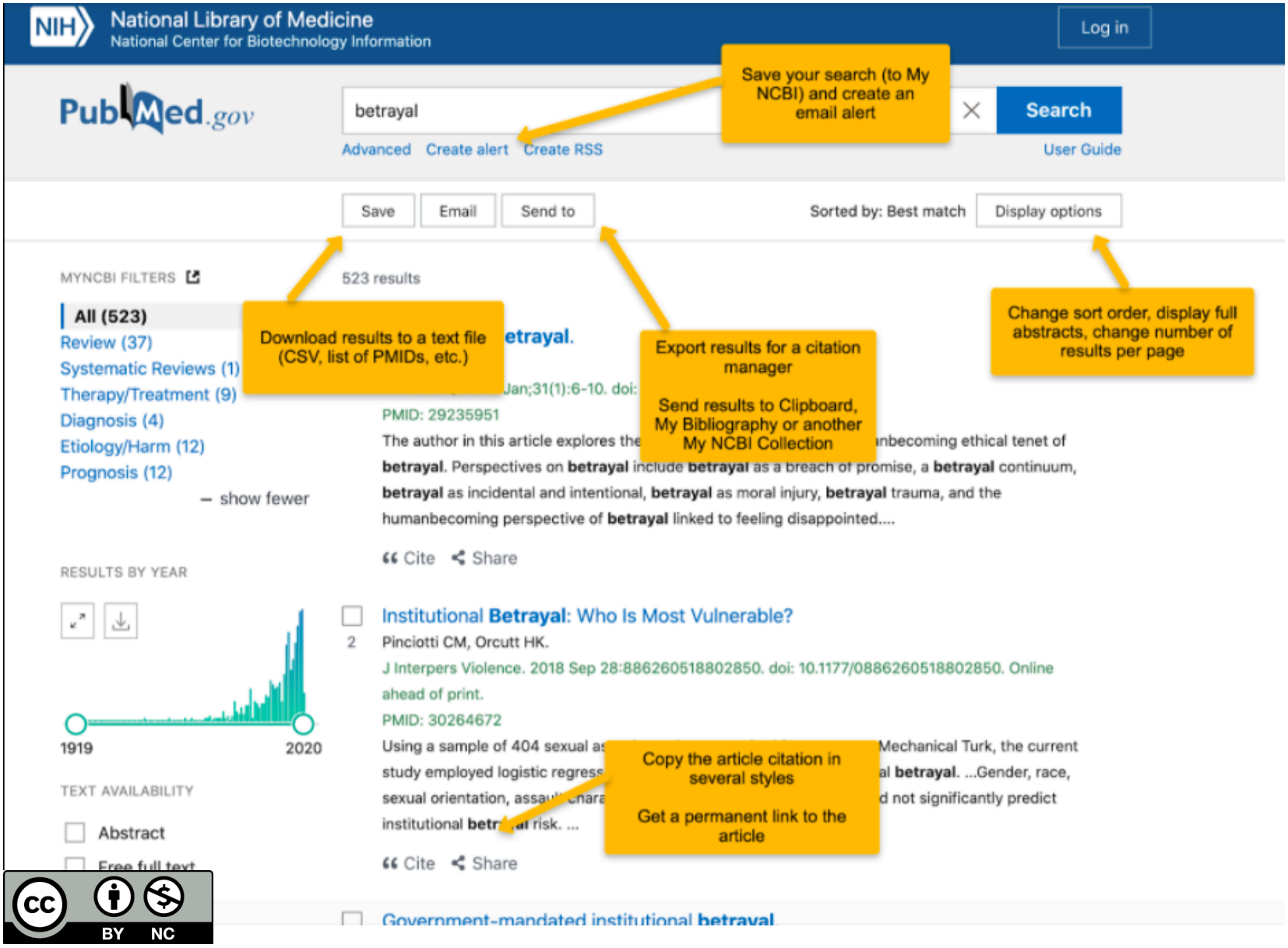

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Create Alert

If you create an alert or save a search using this option, the saved search will *not* include any filters added using the filter options on the left-hand side of the page. In order to include filters in your saved search, you must add them to the search query using the MeSH heading. Contact your librarian if you have questions on how to do this. *See screenshot on next page.*

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Adding Search Filters

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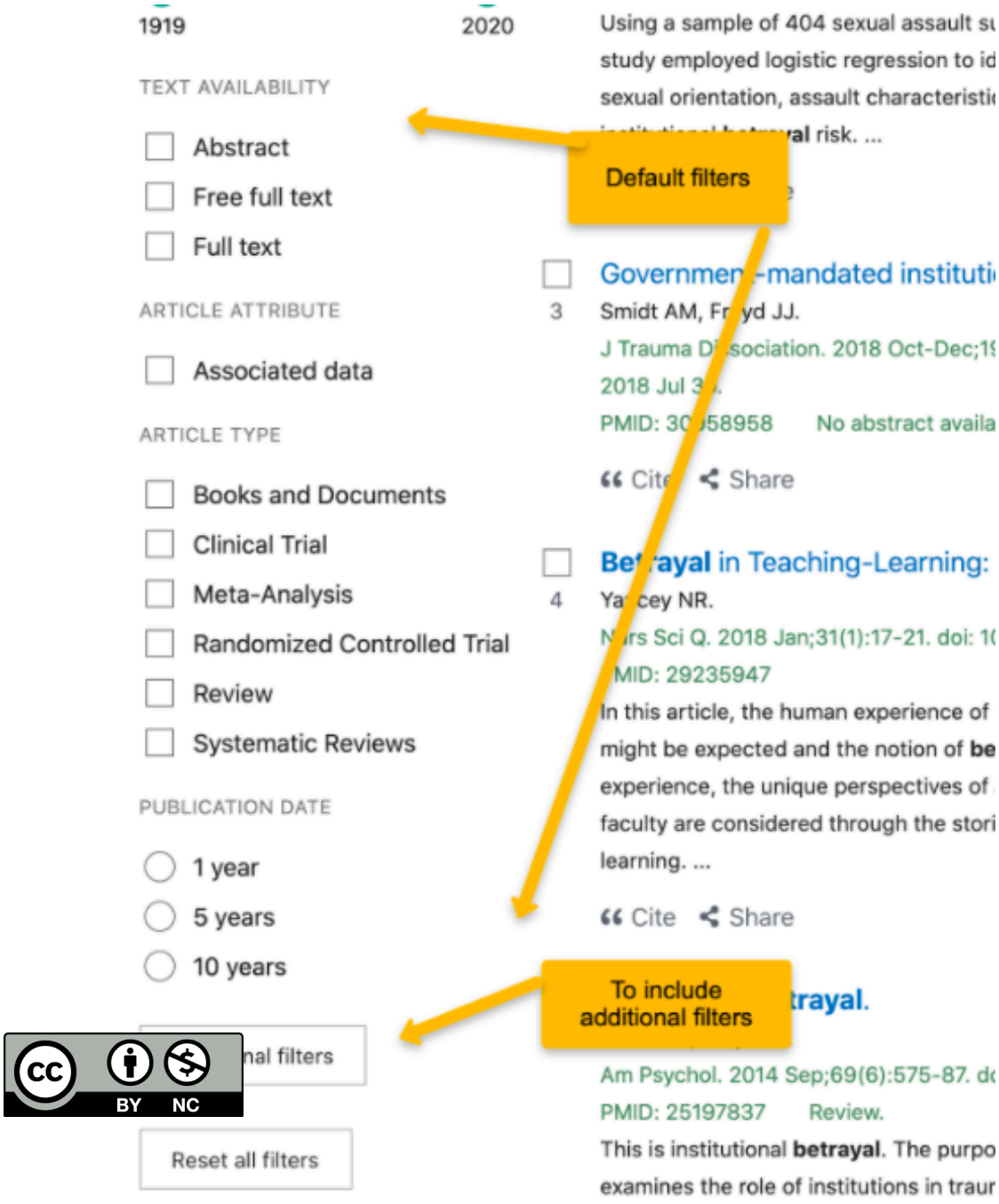

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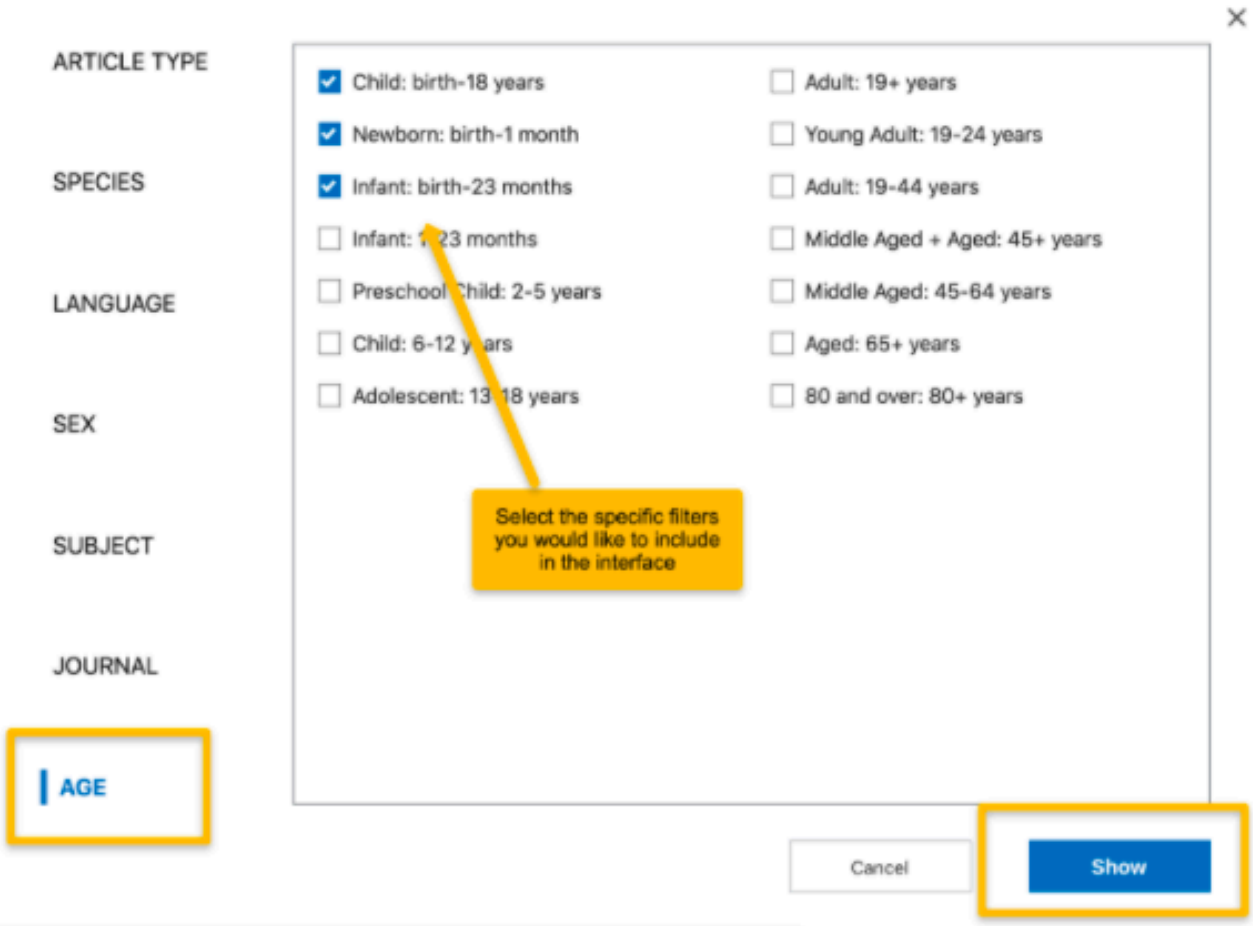

Advanced Search Page

The advanced search page includes the advanced search interface, the search history, as well as some details on how PubMed has interpreted the search string.

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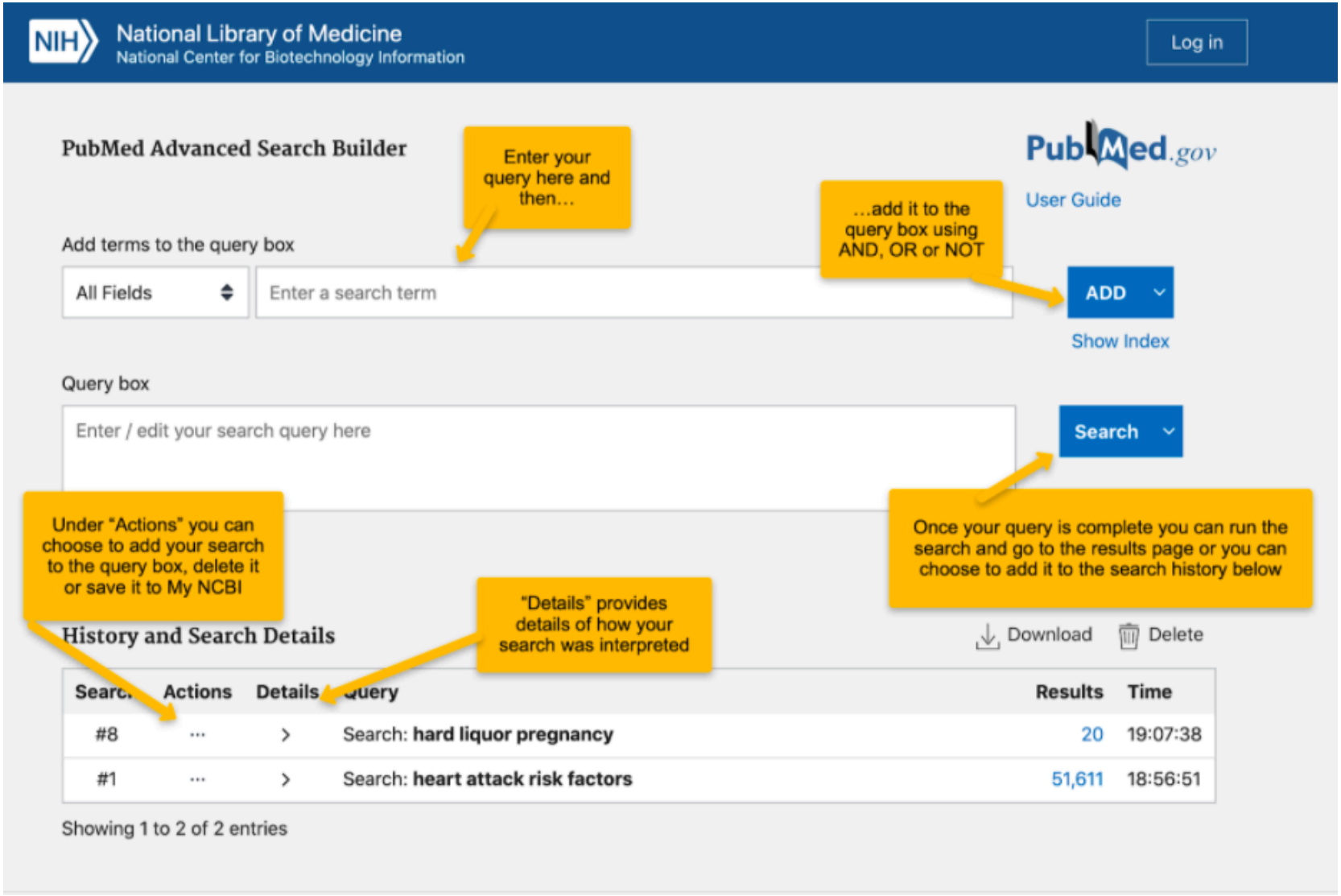

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Search Details

PubMed has always interpreted searches by mapping query terms to MeSH headings. The new PubMed also uses stemming (adding variations of a root word) to broaden the search. These translations are sometimes really helpful in understanding how PubMed is using the search terms. It's also good practice to check the translation to see that it matches with your intended search topic. You can see how your search was interpreted by looking at the search details.

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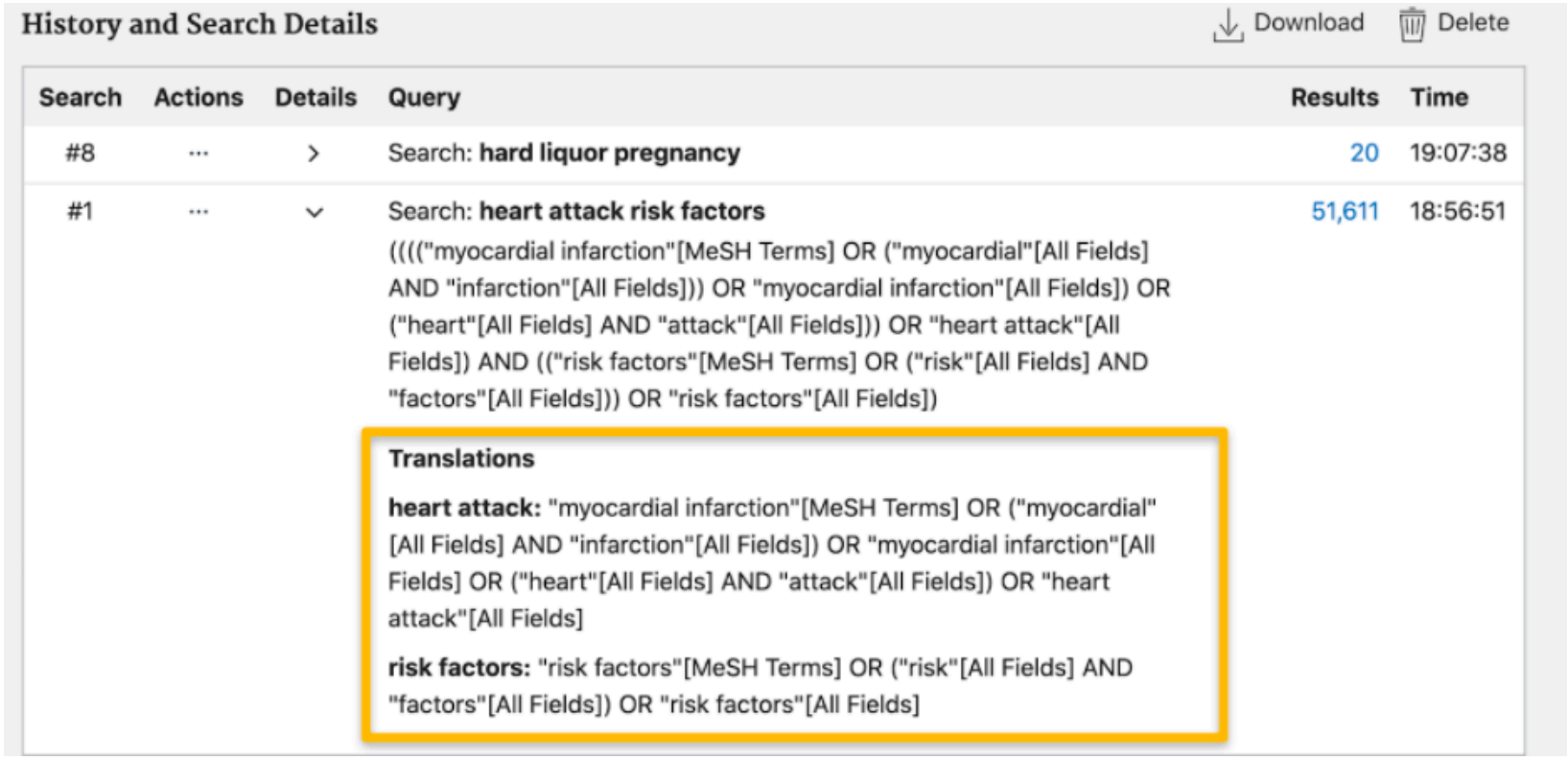

History and Search Details

Download Delete

Search	Actions	Details	Query	Results	Time
#8	···	>	Search: **hard liquor pregnancy**	20	19:07:38
#1	···	v	Search: **heart attack risk factors** ((((("myocardial infarction"[MeSH Terms] OR ("myocardial"[All Fields] AND "infarction"[All Fields])) OR "myocardial infarction"[All Fields]) OR ("heart"[All Fields] AND "attack"[All Fields])) OR "heart attack"[All Fields]) AND (("risk factors"[MeSH Terms] OR ("risk"[All Fields] AND "factors"[All Fields])) OR "risk factors"[All Fields]) **Translations** **heart attack:** "myocardial infarction"[MeSH Terms] OR ("myocardial"[All Fields] AND "infarction"[All Fields]) OR "myocardial infarction"[All Fields] OR ("heart"[All Fields] AND "attack"[All Fields]) OR "heart attack"[All Fields] **risk factors:** "risk factors"[MeSH Terms] OR ("risk"[All Fields] AND "factors"[All Fields]) OR "risk factors"[All Fields]	51,611	18:56:51

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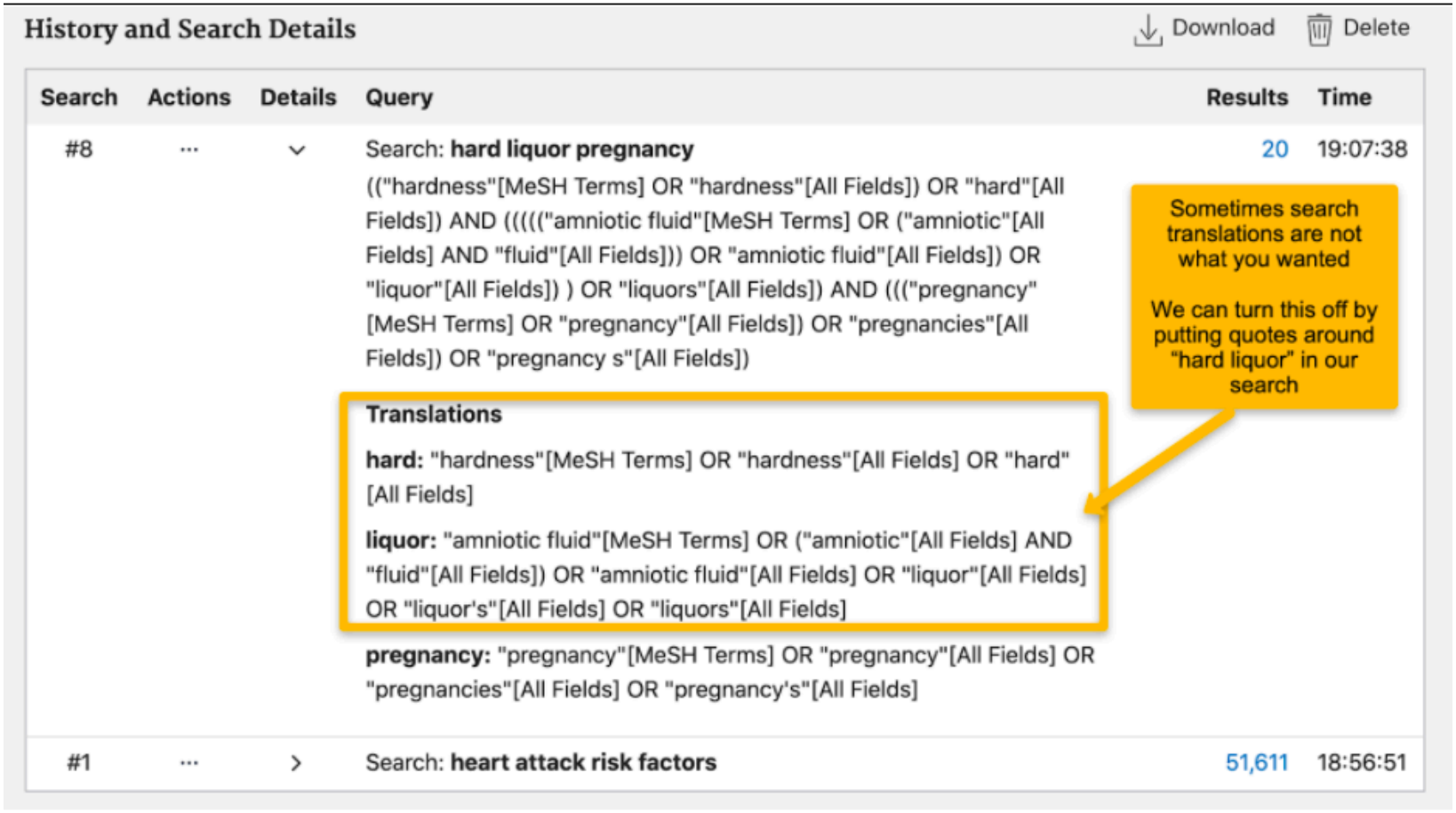

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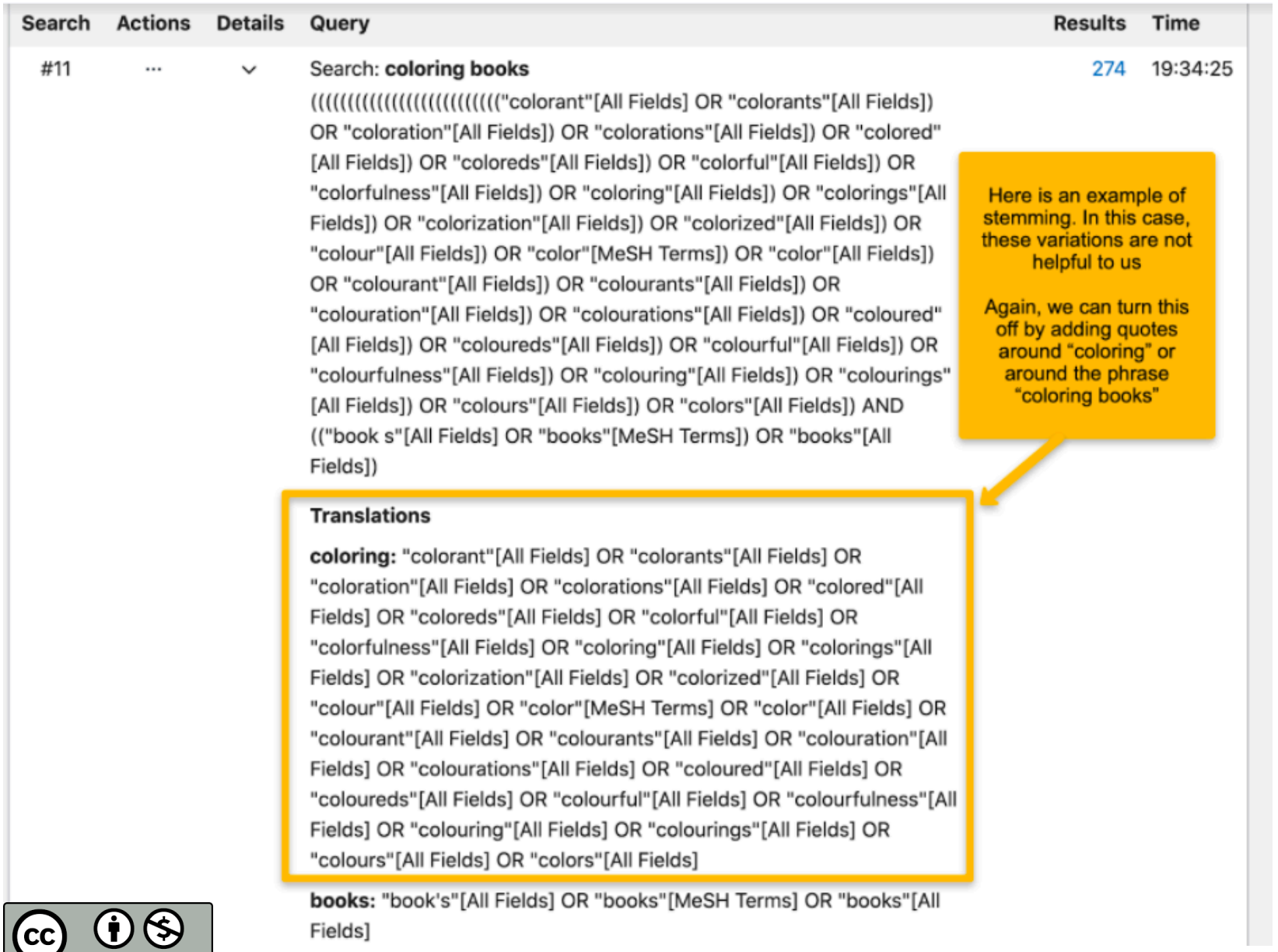

Search	Actions	Details	Query	Results	Time
#11	···	⌄	Search: **coloring books** ((((((((((((((((((((((("colorant"[All Fields] OR "colorants"[All Fields]) OR "coloration"[All Fields]) OR "colorations"[All Fields]) OR "colored"[All Fields]) OR "coloreds"[All Fields]) OR "colorful"[All Fields]) OR "colorfulness"[All Fields]) OR "coloring"[All Fields]) OR "colorings"[All Fields]) OR "colorization"[All Fields]) OR "colorized"[All Fields]) OR "colour"[All Fields]) OR "color"[MeSH Terms]) OR "color"[All Fields]) OR "colourant"[All Fields]) OR "colourants"[All Fields]) OR "colouration"[All Fields]) OR "colourations"[All Fields]) OR "coloured"[All Fields]) OR "coloureds"[All Fields]) OR "colourful"[All Fields]) OR "colourfulness"[All Fields]) OR "colouring"[All Fields]) OR "colourings"[All Fields]) OR "colours"[All Fields]) OR "colors"[All Fields]) AND (("book s"[All Fields] OR "books"[MeSH Terms]) OR "books"[All Fields])	274	19:34:25

Translations

coloring: "colorant"[All Fields] OR "colorants"[All Fields] OR "coloration"[All Fields] OR "colorations"[All Fields] OR "colored"[All Fields] OR "coloreds"[All Fields] OR "colorful"[All Fields] OR "colorfulness"[All Fields] OR "coloring"[All Fields] OR "colorings"[All Fields] OR "colorization"[All Fields] OR "colorized"[All Fields] OR "colour"[All Fields] OR "color"[MeSH Terms] OR "color"[All Fields] OR "colourant"[All Fields] OR "colourants"[All Fields] OR "colouration"[All Fields] OR "colourations"[All Fields] OR "coloured"[All Fields] OR "coloureds"[All Fields] OR "colourful"[All Fields] OR "colourfulness"[All Fields] OR "colouring"[All Fields] OR "colourings"[All Fields] OR "colours"[All Fields] OR "colors"[All Fields]

books: "book's"[All Fields] OR "books"[MeSH Terms] OR "books"[All Fields]

Here is an example of stemming. In this case, these variations are not helpful to us

Again, we can turn this off by adding quotes around “coloring” or around the phrase “coloring books”

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Individual Record Page

The individual record page now contains a lot of its information on the lower portion of the page. Scroll down to get to what you're looking for. Navigation has been added on the right to allow you to jump directly to where you want to get to.

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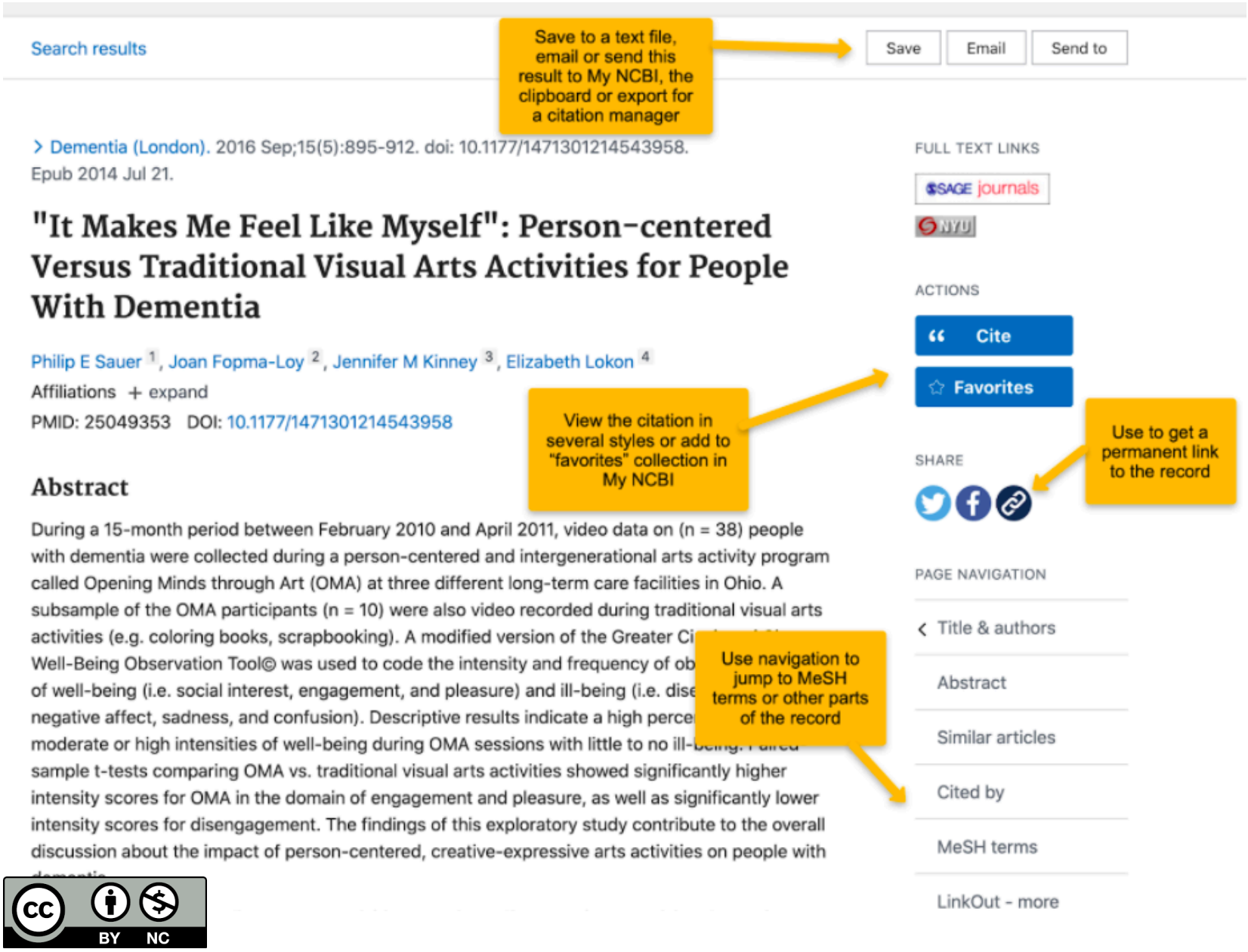
Search results
Save to a text file, email or send this result to My NCBI, the clipboard or export for a citation manager
Save
Email
Send to
Dementia (London). 2016 Sep;15(5):895-912. doi: 10.1177/1471301214543958. Epub 2014 Jul 21.
"It Makes Me Feel Like Myself": Person-centered Versus Traditional Visual Arts Activities for People With Dementia
Philip E Sauer [1], Joan Fopma-Loy [2], Jennifer M Kinney [3], Elizabeth Lokon [4]
Affiliations + expand
PMID: 25049353 DOI: 10.1177/1471301214543958
Abstract
During a 15-month period between February 2010 and April 2011, video data on (n = 38) people with dementia were collected during a person-centered and intergenerational arts activity program called Opening Minds through Art (OMA) at three different long-term care facilities in Ohio. A subsample of the OMA participants (n = 10) were also video recorded during traditional visual arts activities (e.g. coloring books, scrapbooking). A modified version of the Greater Ci
Well-Being Observation Tool© was used to code the intensity and frequency of ob
of well-being (i.e. social interest, engagement, and pleasure) and ill-being (i.e. dise
negative affect, sadness, and confusion). Descriptive results indicate a high perce
moderate or high intensities of well-being during OMA sessions with little to no ill-
sample t-tests comparing OMA vs. traditional visual arts activities showed significantly higher intensity scores for OMA in the domain of engagement and pleasure, as well as significantly lower intensity scores for disengagement. The findings of this exploratory study contribute to the overall discussion about the impact of person-centered, creative-expressive arts activities on people with
FULL TEXT LINKS
SAGE journals
NYU
ACTIONS
Cite
Favorites
View the citation in several styles or add to "favorites" collection in My NCBI
SHARE
Use to get a permanent link to the record
PAGE NAVIGATION
Title & authors
Abstract
Similar articles
Cited by
MeSH terms
LinkOut - more
Use navigation to jump to MeSH terms or other parts of the record

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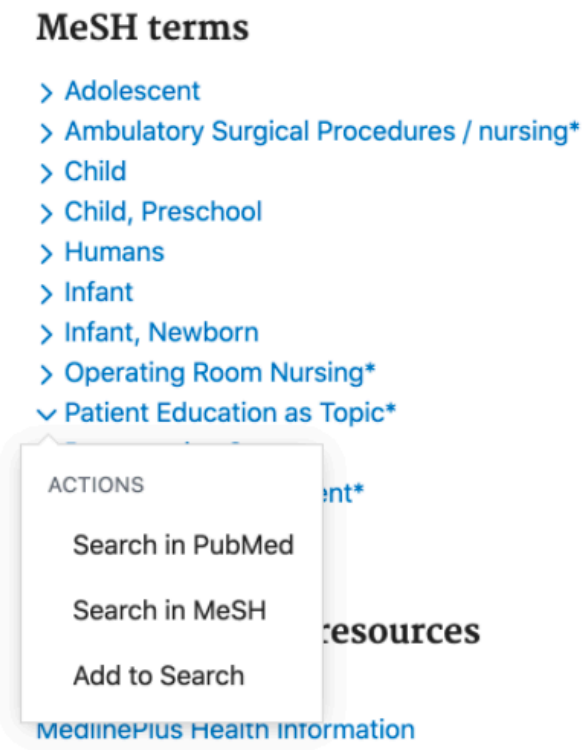
MeSH Terms & Substances

MeSH terms and Substances still work as before. Just click on the term to see the options.



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Navigating Between Records

Another addition to this page is navigation on the right and left that allows you to move through the list of results without having to go back to the results page.

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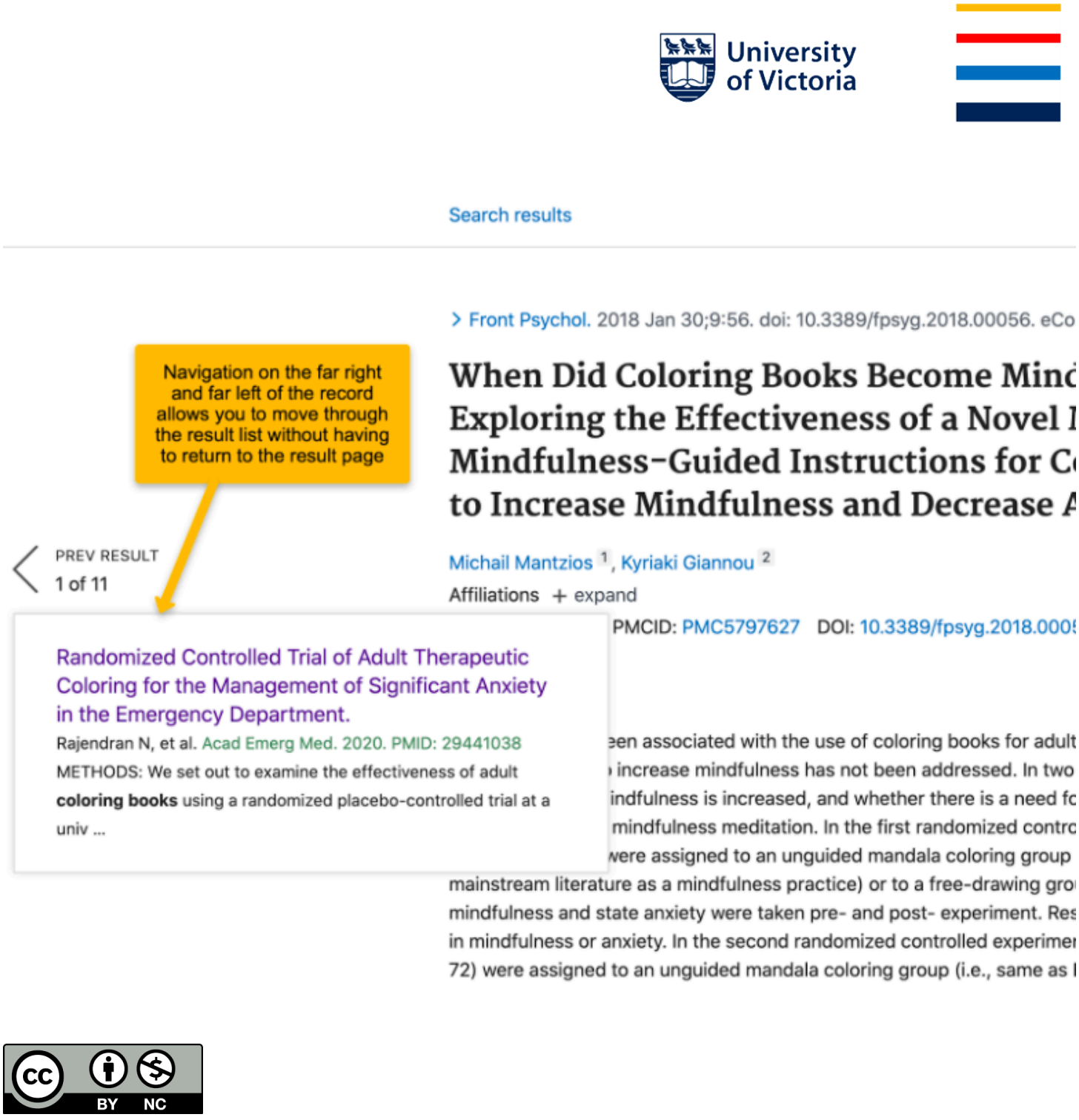

Search results

Navigation on the far right and far left of the record allows you to move through the result list without having to return to the result page

PREV RESULT
1 of 11

Randomized Controlled Trial of Adult Therapeutic Coloring for the Management of Significant Anxiety in the Emergency Department.

Rajendran N, et al. Acad Emerg Med. 2020. PMID: 29441038

METHODS: We set out to examine the effectiveness of adult **coloring books** using a randomized placebo-controlled trial at a univ ...

> Front Psychol. 2018 Jan 30;9:56. doi: 10.3389/fpsyg.2018.00056. eCo

When Did Coloring Books Become Minc Exploring the Effectiveness of a Novel I Mindfulness-Guided Instructions for C to Increase Mindfulness and Decrease A

Michail Mantzios [1], Kyriaki Giannou [2]

Affiliations + expand

PMCID: PMC5797627 DOI: 10.3389/fpsyg.2018.000

een associated with the use of coloring books for adult
increase mindfulness has not been addressed. In two
indfulness is increased, and whether there is a need fc
mindfulness meditation. In the first randomized contro
were assigned to an unguided mandala coloring group
mainstream literature as a mindfulness practice) or to a free-drawing gro
mindfulness and state anxiety were taken pre- and post- experiment. Res
in mindfulness or anxiety. In the second randomized controlled experimer
72) were assigned to an unguided mandala coloring group (i.e., same as

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Best Match: Search Algorithm Changes

The Best Match algorithm was introduced in the legacy PubMed in 2017 and appeared as an alternative sort order, by relevance. Best Match doesn't just re-sort the results, though. Selecting Best Match actually uses a different search method to retrieve them. For this reason, the total number of results would sometimes be different between the sort order (by date) vs. sorting with Best Match. The new PubMed strictly uses the Best Match algorithm to return results, regardless of the sort order.

Best Match utilizes machine learning and includes 150 signals to identify "best matches". These signals include the relative frequency with which terms from the search query appear in the title and/or abstract of PubMed records, the publication type and the publication date of the record, the number of abstract views the record received within the last year, and the length of the search query.
Due to the many changing signals that can impact search results, PubMed searches will not be as transparent or reproducible as they have been in the past, which may be of concern for those who perform comprehensive searches for systematic reviews.

Molecular Databases and PubMed

As mentioned in the interface overview, the new PubMed homepage does not include a dropdown to other NCBI databases. Other features related to PubMed links with molecular data that are currently missing from the new PubMed include:

- Options like "Find Related Data" (from the search results page) and "Related Information" (on the record page) that will identify molecular data related to PubMed search results.
- Search queries that utilize these between-database links
- Searches for a gene symbol in the old PubMed results in quick links to the Gene records, genetic tests, and curated literature related to the gene function

Again, these options are not available in the new PubMed at this time.

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However, links from other databases to PubMed will work. For example, Gene records include a Bibliography section that includes links to related articles in PubMed. Clicking on the link to see all related records in the human ADORA2A (Gene ID: 135) will return results with the 341 articles linked to from that record.

Accessing the Legacy PubMed

Currently the old version of PubMed is not accessible from the New PubMed homepage. All existing links to PubMed should now route to the new version. If you are working on a project that requires using the old version, NLM will provide access to the old version if you request it. This access is limited and unclear for how long it will remain.

Helpful resources:

- Collins M. The New PubMed is Here. NLM Tech Bull. 2019 Nov-Dec;(431):e3

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